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A METHOD OF COMPUTING SPHERICAL BESSEL
FUNCTIONS OF COMPLEX ARGUMENT WITH
TABLES

W. J. Lentz

Army Electronics Command

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Atmospheric Sciences Laboratory

September 1973

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A NEW METHOD OF COMPUTING SPHERICAL BESSEL FUNCTIONS OF COMPLEX ARGUMENT WITH TABLES

By

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US Army Electronics Command
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13. ABSTRACT Ten-place tables of spherical Bessel functions of complex argument with real and imaginary values from 0.001 to 1000 in varying increments for 100 consecutive orders are presented. The method used to generate these tables is based on a continued fraction representation of the ratio of Bessel functions of consecutive order. This method retains a high degree of accuracy in a finite digit machine, incorporates a terminating condition, is fast and simple, and is versatile enough to find wide application as a method for continued fractions in general.			

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INTRODUCTION

Spherical Bessel functions of complex argument find application in scientific computations ranging from electronic circuit analysis to the understanding of nuclear and Mie scattering. Yet tables of Bessel functions are presently limited to spherical Bessel functions of real argument and to nonspherical Bessel functions of complex argument of 0 and 1 order. Tables of the former may be found in Abramowitz [1], and tables of the latter in Lowan [2]. The generation of spherical Bessel functions of complex argument is not a trivial problem, even with modern high-speed computers, because of difficulties associated with each of the methods used for their generation.

To surmount these difficulties, it became necessary to develop a method which would be simple and accurate for machine computation, and which would incorporate a terminating condition. The result was a method based on a continued fraction representation of the ratio of Bessel functions of consecutive order.

The purpose of this report is primarily to present the new method of calculating continued fractions, and secondarily to present tables of spherical Bessel functions of complex argument against which this method and others may be checked. The development is placed in perspective by reviewing the advantages and disadvantages of the other methods and algorithms which might be used. Suggestions are made relative to the extension of the method to other functions of complex argument.

RECURSION RELATIONS

Recursion relations are the simplest and most common method of generating Bessel functions. The fundamental recursion relation is

$$J_{v+1}(x) + J_{v-1}(x) = 2v/x J_v(x) \quad (1)$$

where J is the Bessel function of order v and complex argument x and $v = n+1/2$ where n is an integer. This relation may be used with two consecutive orders to generate all the necessary orders by starting at low order and recurring upward or starting at an approximate high order and recurring downward.

Unfortunately both of these methods have serious limitations. Lowan [2] has noted that the upward recursions are unstable when $2v/x$ is greater than unity, because the values of consecutive orders of

Bessel functions have common initial digits. Gautchi [3] has shown that the upward recursion has no digit accuracy after only seven recursions with 32-bit capacity for $x = 1.0$. Therefore, even using double precision arithmetic, the procedure will not work for more than a very few consecutive orders.

Miller's downward recursion scheme [4] has solved the problem of accuracy at the expense of machine time and storage. By starting with an approximate value for high orders, one can recur downward with only roundoff error. Since downward recursions start at a very high order for moderate arguments, this method is impractical when only a few orders are needed. This technique also suffers from the same problem that the forward recursion has - once accuracy is lost in a term, all the following terms have lost the same amount of accuracy. In this case, roundoff error may accumulate so that the more significant smaller orders are very much more inaccurate than the approximate initial high order.

INFINITE SERIES

The infinite series for Bessel functions is seldom used because the series is computationally divergent for moderate x and small orders. When the series does converge, it converges slowly, and it is difficult to program. Infinite series representations of Bessel functions are therefore mathematically interesting but not very practical for computation.

CONTINUED FRACTIONS

Continued fractions have the advantage of being simple, easy to program, and accurate for machine computation. Unfortunately, they have been neglected in favor of recursion relations because of difficulties in determining the accuracy of a given number of terms in a continued fraction. The following development of continued fractions is intended to review their basic properties, point out the weaknesses in available algorithms, and to develop a method of generating Bessel functions which is free of these weaknesses.

Basic Properties

A continued fraction may be written as

$$f = a_0 + \frac{b_1}{c_1 + \frac{b_2}{c_2 + \frac{b_3}{c_3 \dots}}} \quad (2)$$

which can be rewritten as

$$f = a_0 + \frac{b_1}{c_1} + \frac{b_2}{c_2} + \frac{b_3}{c_3} + \dots \quad (3)$$

The n^{th} approximate convergent to the continued fraction representation of f is written as

$$f_n = a_0 + \frac{b_1}{c_1} + \dots + \frac{b_n}{c_n} \quad (4)$$

Continued fractions may be generated from a three-term recursion relation in a simple way:

$$\begin{aligned} \frac{J_{v-1}}{J_v} &= \frac{2v}{x} - \frac{J_{v+1}}{J_v} = \frac{2v}{x} - \frac{1}{\frac{2(v+1)}{x} - \frac{J_{v+2}}{J_{v+1}}} \\ &= \frac{2v}{x} - \frac{1}{\frac{2(v+1)}{x} - \frac{1}{\frac{2(v+2)}{x} - \dots}} \end{aligned} \quad (5)$$

So

$$\frac{J_{v-1}}{J_v} = 2vx^{-1} - \frac{1}{2(v+1)x^{-1} - \frac{1}{2(v+2)x^{-1} - \dots}} \quad (6)$$

This form is one of a simple continued fraction which may be defined as

$$f(x) = a_1 + \frac{1}{a_2} + \frac{1}{a_3} + \frac{1}{a_4} + \dots + \frac{1}{a_n} + \dots \quad (7)$$

where $a_1 \neq 0$ and the a 's may be negative.

Equation (7) may be written in the more convenient notation of

$$f(x) = [a_1, a_2, a_3, \dots] \quad (8)$$

The n^{th} convergent is written in like manner:

$$f_n(x) = [a_1, a_2, a_3, \dots, a_n] \quad (9)$$

It has been shown by Wall [5] that all continued fractions may be expressed as simple continued fractions of the above form. In addition, Watson [6] has shown that the form of the continued fraction for Bessel functions is unique, requiring that all the n^{th} convergents of the continued fraction in whatever form have the same numerical value. For example, all of the following are equivalent in the n^{th} convergent:

$$\frac{J_v}{J_{v-1}} = \frac{1/2 x/v}{1} - \frac{1/4 x^2/(v[v+1])}{1} - \frac{1/4 x^2/([v+1][v+2])}{1} - \dots \quad (10)$$

$$\frac{J_v}{J_{v-1}} = \frac{1}{2vx^{-1}} - \frac{1}{2(v+1)x^{-1}} - \dots \quad (11)$$

$$\frac{J_v}{J_{v-1}} = \frac{x}{2v} - \frac{x^2}{2(v+1)} - \frac{x^2}{2(v+2)} - \dots \quad (12)$$

Algorithms

It is now possible to generate the ratio of Bessel functions by starting with the last value on the right of Eq. (9) and working backwards to a_1 . However, the minimum necessary value of n must be specified before the computation starts, since adding one term means the re-computation of the entire fraction. Gautchi [3] has made an estimate of the value of n for determining Bessel functions to a given accuracy. This method does not apply in general to continued fractions and is only an approximate estimate which is difficult to apply. Moreover, the tail-to-head method suffers somewhat from roundoff error when the difference between two values is near zero.

Another method of computing $J_{\nu-1}/J_\nu$ follows logically from the relations

$$\begin{aligned} p_n &= a_n p_{n-1} + p_{n-2} \\ q_n &= a_n q_{n-1} + q_{n-2} \end{aligned} \tag{13}$$

so

$$\frac{p_n}{q_n} \equiv [a_1, a_2, \dots, a_n] \tag{14}$$

where p_n is the n^{th} partial numerator and q_n the n^{th} partial denominator of the n^{th} convergent.

Wall [5] has shown that these relations are generally true for any continued fraction. Starting with the initial values of $p_1 = a_1$, $q_1 = 1$, $p_0 = 1$, and $q_0 = 0$, one can generate successive approximants to the exact infinite continued fraction until the desired accuracy is obtained. This method is illustrated in Teichroew [7] and Abramowitz [1]. The former has noted that the values of p_n and q_n may grow so large as to cause overflow in the computer. Moreover, for negative a_m an initial number of digits may cancel, causing loss of accuracy in the m^{th} convergent in exactly the same way as the original recursion relation (Eq. (1)). This forward ratio method leaves much to be desired.

By noticing that the relations in Eq. (13) are themselves recursion relations, one obtains a new method of generating Bessel functions:

$$\frac{p_n}{p_{n-1}} = a_n + \frac{p_{n-2}}{p_{n-1}} = [a_n, a_{n-1}, \dots, a_2, a_1]$$

$$\frac{q_n}{q_{n-1}} = a_n + \frac{q_{n-2}}{q_{n-1}} = [a_n, a_{n-1}, \dots, a_2] \quad (15)$$

Note that the relation for q_n/q_{n-1} starts with a_2 rather than a_1 because $q_0 = 0$.

$$\frac{\frac{p_n}{p_{n-1}}}{\frac{q_n}{q_{n-1}}} = \frac{\frac{p_n}{q_n}}{\frac{p_{n-1}}{q_{n-1}}} = \frac{[a_n, a_{n-1}, \dots, a_1]}{[a_n, a_{n-1}, \dots, a_2]} \quad (16)$$

So the value of p_n/q_n is given by

$$\frac{p_n}{q_n} = \frac{[a_n, \dots, a_1] [a_{n-1}, \dots, a_1] \dots [a_1]}{[a_n, \dots, a_2] [a_{n-1}, \dots, a_2] \dots [a_2]} \quad (17)$$

Eq. (17) gives the value of the n^{th} approximant to the exact continued fractions representation for a particular continued fraction. When the ratio

$$\left| \frac{\frac{p_n}{q_n}}{\frac{p_{n-1}}{q_{n-1}}} - 1 \right| < \epsilon \quad (18)$$

where ϵ is the maximum allowable error, the product can be terminated since all subsequent ratios will be unity. Eq. (17) gives a simple method of computing the ratios of Bessel functions of successive order to the number of significant digits in the computer. The specific formula for the Bessel function is

$$\frac{J_{v-1}}{J_v} = 2vx^{-1} + \frac{1}{-2(v+1)x^{-1}} + \frac{1}{2(v+2)x^{-1}} + \frac{1}{-2(v+3)x^{-1}} + \dots \quad (19)$$

Every other a_n is negative in Eq. (17), but the application is unchanged. Each numerator and denominator is generated from the preceding one by taking the reciprocal and adding the next a_n :

$$\frac{J_{v-1}}{J_v} \approx \frac{[2(v+2m)x^{-1}, -2(v+2m-1)x^{-1}, \dots, 2vx^{-1}] \dots [2vx^{-1}]}{[2(v+2m)x^{-1}, -2(v+2m-1)x^{-1}, \dots, -2(v+1)x^{-1}] \dots [-2(v+1)x^{-1}]} \quad (20)$$

Since both the numerators and denominators alternate in sign, it is simpler to consider all a_n positive, and to generate each successive term by taking the reciprocal and subtracting from the next a_n . The n th approximate convergent is the product of all the preceding ratios, and the fraction terminates when the n th ratio in Eq. (18) is unity.

It may be noted that the order of the terms in the simple continued fraction has been reversed between Eqs. (8) and (17). This means that it is not necessary to decide how many terms are desired before the computation, as in Eq. (9). Because the successive numerators and denominators of Eq. (17) are tending toward the same finite value, there is no large growth in the numerator and denominator as in the use of Eq. (13).

An advantage that is not immediately apparent is that a particular n th convergent being near zero or very large is no disadvantage. Although the computed n th approximant will deviate slightly from the theoretical value, the n th convergent will converge back to the correct value. In other words, the n th approximant is slightly self-correcting.

The continued fraction converges very quickly and does not require significant storage. This first ratio usually requires the largest number of terms, and for $x = 1.0$ and $v = 1.5$ with 64-bit capacity, only nine terms are needed. A sample calculation follows:

$$x = 1.0 \quad v = 9.5$$

$$\frac{J_{v-1}}{J_v} = \frac{(19) (20.94736842) (22.95226131) (24.95643131) (26.95993017)}{(21) (22.95238095) (24.95643154) (26.95993017)}$$

$$= 18.95228198 \quad (21)$$

This value is identical to the handbook value [1].

The development has made no restrictions on the form of the argument or order, so they can both be complex and positive or negative. Near zeros of the Bessel functions it should be noted that the accuracy may drop to ten places rather than ten significant digits. The actual spherical Bessel functions rather than their ratios as in Eq. (19) are found from

$$j_0(x) = \sqrt{\frac{\pi}{2x}} J_{1/2}(x) = \frac{\sin(x)}{x} \quad y_0(x) = \sqrt{\frac{\pi}{2x}} J_{-1/2}(x) = \frac{-\cos(x)}{x}$$

$$j_n(x) = \frac{J_{n+1/2}}{J_{n-1/2}} \frac{J_{n-1/2}}{J_{n-3/2}} \dots J_{1/2} \sqrt{\frac{\pi}{2x}}$$

$$y_n(x) = \frac{J_{-n-1/2}}{J_{-n+1/2}} \frac{J_{-n+1/2}}{J_{-n-3/2}} \dots J_{-1/2} \sqrt{\frac{\pi}{2x}} \quad (22)$$

ACCURACY

A comparison between the accuracy of a double precision 64-bit and single precision 32-bit program was made for the real values of argument tabulated in Abramowitz [1]. The agreement between the double precision routine and the handbook was exact for 10 significant digits for all arguments. By comparing the single precision version to the double precision version, it is estimated that the last four of the 16 digits would be susceptible to machine roundoff. Therefore, the table is reproduced to 10 digits to allow for the additional possibility of roundoff error for complex arguments.

OTHER FUNCTIONS

Many known functions have been expressed in terms of continued fractions, and they may be evaluated by Eq. (17). Abramowitz [1] has listed one form of a continued fraction representation for most of the

functions in his handbook. The form of any continued fraction may be changed to that of Eq. (7) by the following transformations:

$$f(x) = a_0 + \frac{b_1}{c_1} + \frac{b_2}{c_2} + \dots = a_0 + \frac{d_1 b_1}{d_1 c_1} + \frac{d_1 d_2 b_2}{d_2 c_2} + \frac{d_2 d_3 b_3}{d_3 c_3} + \dots \quad (23)$$

The only requirement is that a_0 be nonzero; if a_0 is zero, this requirement may be met by taking the reciprocal of the continued fraction.

The continued fraction technique will converge with fewer terms than any other current method and is specifically adapted to machine computation. Although mathematically equivalent to recursion relations, the continued fraction technique gains accuracy from the fact that the product of two numbers in the computer does not lose accuracy, as does the difference of two numbers.

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APPENDIX A

USE OF THE TABLES

The following tables contain 100 orders of spherical Bessel functions of the first and second kind for the same argument on the same page. The real and imaginary parts of the spherical Bessel functions of the first kind $j_n(x) = \sqrt{\frac{1}{2}\pi/x} j_{n+\frac{1}{2}}(x)$ are presented on the left side with the appropriate order n , and the spherical Bessel functions of the second kind $y_n(x) = \sqrt{\frac{1}{2}\pi/x} Y_{n+\frac{1}{2}}(x) = (-1)^{n+1} \sqrt{\frac{1}{2}\pi/x} j_{-(n+\frac{1}{2})}(x)$ are in like manner on the right side of the page.

Beyond the 20th order, the missing orders can be found by a downward recursion for $j_n(z)$ and by an upward recursion for $y_n(x)$. The spherical Bessel functions of the complex conjugate of the argument presented here can be found by taking the complex conjugate of the results in the Table. Since these Tables are intended as check values, interpolation should not be attempted between values of argument.

In those few cases where the value of the spherical Bessel functions exceed $10^{\pm 300}$ a scale factor of 10^{+300} was multiplied by the $j_n(x)$ and 10^{-300} was multiplied by the $y_n(x)$. These scale factors are indicated by a sudden break in the order of magnitude with increasing n since the initial values never exceeded the scale factor.

Many of the more useful relations among the spherical Bessel functions may be found in Abramowitz [1]. If these relations are used to check the table, it should be noted that the initial values of j_0 and y_0 are given by Eq. (22) and that the last or highest order being correct depends on all the lower orders being correct.

REAL X = .1000000000-002		IMAGINARY X = .0000000000			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.999998333+000	.000000000	0	-.999999500+003	.000000000
1	.333333000-003	.000000000	1	-.100000500+007	.000000000
2	.666666190-007	.000000000	2	-.300000500+010	.000000000
3	.9523808995-011	.000000000	3	-.150000150+014	.000000000
4	.1058201010-014	.000000000	4	-.105000075+018	.000000000
5	.9620009250-019	.000000000	5	-.9450000525+021	.000000000
6	.7400007153-023	.000000000	6	-.103950047+026	.000000000
7	.49333338122-027	.000000000	7	-.135135052+030	.000000000
8	.2901963610-031	.000000000	8	-.2927025068+034	.000000000
9	.1527349272-035	.000000000	9	-.3445942601+038	.000000000
10	.7273001787-040	.000000000	10	-.6547290922+042	.000000000
11	.3162213825-044	.000000000	11	-.1374931090+047	.000000000
12	.1264885532-048	.000000000	12	-.3162341501+051	.000000000
13	.4684761237-053	.000000000	13	-.7905853739+055	.000000000
14	.1615434911-057	.000000000	14	-.2134580506+060	.000000000
15	.5211080363-062	.000000000	15	-.6190283460+064	.000000000
16	.1579115263-066	.000000000	16	-.1918987871+069	.000000000
17	.4511757898-071	.000000000	17	-.6332659967+073	.000000000
18	.1219394027-075	.000000000	18	-.2216430986+078	.000000000
19	.3126651354-080	.000000000	19	-.8200794643+082	.000000000
20	.7625978916-085	.000000000	20	-.3198309909+087	.000000000
30	.5611103649-132	.000000000	30	-.2921560662+134	.000000000
31	.8906656588-137	.000000000	31	-.1782152003+139	.000000000
40	.1547505320-190	.000000000	40	-.7977794232+182	.000000000
41	.1864464241-185	.000000000	41	-.6462013327+187	.000000000
50	.3632868058-230	.000000000	50	-.2725392154+232	.000000000
51	.3527056368-235	.000000000	51	-.2752646075+237	.000000000
60	.1185210171-280	.000000000	60	-.6972993491+282	.000000000
61	.9635855053-286	.000000000	61	-.8437322124+287	.000000000
70	.7450332054-032	.000000000	70	-.9519305355+033	.000000000
71	.5210022416-037	.000000000	71	-.1342222055+039	.000000000
80	.1139843580-083	.000000000	80	-.5449151298+085	.000000000
81	.6992905401-089	.000000000	81	-.8773133589+090	.000000000
90	.5058076563-136	.000000000	90	-.1092285142+138	.000000000
91	.2763976264-141	.000000000	91	-.1977036107+143	.000000000
99	.1500080550-183	.000000000	99	-.3349903863+185	.000000000
100	.7463087313-189	.000000000	100	-.66666308687+190	.000000000

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REAL X = .1000000000-002		IMAGINARY X = -.1000000000-002		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.1000000000+001	0	.3333333333-006	0	-.4999995000+003	0	-.5000005000+003
1	.3333334000-003	1	.3333332667-003	1	-.5000000000+000	1	-.5000000000+006
2	.1904761905-013	2	-.1333333333-006	2	.7499997500+009	2	-.7500002500+009
3	-.1904761693-010	3	-.1904762116-010	3	.3750000000+013	3	-.7500000000+006
4	-.4232804233-014	4	-.3848003848-021	4	.1312500187+017	4	.1312499812+017
5	-.3848004144-018	5	.3848003552-018	5	.1312500000+014	5	.1181250000+021
6	-.3946670614-029	6	.5920005920-022	6	-.6496874409+024	6	.6496875591+024
7	.3946670301-026	7	.3946670845-026	7	-.8445937500+028	7	.6496875000+021
8	.4643141898-030	8	.2443758894-037	8	-.6334453547+032	8	-.6334452703+032
9	.2443759010-034	9	-.2443758777-034	9	-.6334453126+029	9	-.1076857031+037
10	.1011908445-045	10	-.2327389423-038	10	.1023014126+041	10	-.1023014234+041
11	-.1011908404-042	11	-.1011908485-042	11	.2148329777+045	11	-.1023014180+038
12	-.8095267557-047	12	-.2998247245-054	12	.2470579351+049	12	.2470579137+049
13	-.2998247347-051	13	.2998247140-051	13	.2470579244+046	13	.6176448110+053
14	-.6670182971-063	14	.2067756719-055	14	-.8338204639+057	14	.8338205257+057
15	.6670182764-060	15	.6670183168-060	15	-.2470579245+066	15	-.3748023003+054
16	.4042535131-064	16	.1155010038-071	16	-.3748023245+066	16	-.1236847631+071
17	.1155010069-068	17	-.1155010006-068	17	-.3748023125+063	17	-.2164483416+075
18	.1600845515-080	18	-.6243297500-073	18	.2164483292+075	18	-.2164483355+072
19	-.1600845474-077	19	-.1600845552-077	19	.8008588411+079	19	.1561674700+084
20	-.7809002501-082	20	-.1816047096-089	20	.1561674780+084	20	.4457947825+129
30	-.2918533262-135	30	.1838675950-127	30	-.4457947674+129	30	.4457947752+126
31	.2918533208-132	31	.2918533298-132	31	-.2719348127+134	31	.3804108658+176
40	.1622676948-174	40	.1955032478-182	40	-.3804108754+176	40	-.3804108658+176
41	.1955032491-179	41	-.1955032445-179	41	-.3804108711+173	41	-.3081328052+181
50	.1183483745-230	50	-.1218988248-222	50	.4061150718+224	50	-.4061150800+224
51	-.1183483725-227	51	-.1183483747-227	51	.4101762267+229	51	-.4061150768+221
60	-.1272609736-271	60	-.1034642073-279	60	.3247053139+273	60	.3247053085+273
61	-.1034642070-276	61	.1034642054-276	61	.3247053121+270	61	.3928934265+278
70	.1060829663-030	70	.2559914610-021	70	-.1385241231+023	70	.1385241251+023
71	.1790150078-026	71	.1790150076-026	71	-.1953190149+028	71	.1385241246+020
80	.1253271274-071	80	-.1594710073-080	80	-.2477987125+073	80	-.2477987094+073
81	.7688780813-077	81	-.7688780834-077	81	-.2477987122+070	81	-.3989559246+078
90	-.3457733971-131	90	-.1779652483-122	90	.1552230533+124	90	-.1552230551+124
91	-.9724876978-128	91	-.9724876940-128	91	.2809537281+129	91	-.1552230552+121
99	-.8444702798-169	99	-.8444702757-169	99	.2975312311+170	99	-.1510310829+162
100	-.8402689331-174	100	.2084958455-182	100	.2960435765+175	100	.2960435735+175

REAL X = .1000000000-001		IMAGINARY X = .0000000000		SECOND KIND	
N	FIRST BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9999833334+000	.0000000000	0	-.9999500004+002	.0000000000
1	.3333300000-002	.0000000000	1	-.1000049999+005	.0000000000
2	.0666619048-005	.0000000000	2	-.3000050001+007	.0000000000
3	.9523756614-008	.0000000000	3	-.1500015000+010	.0000000000
4	.1058196248-010	.0000000000	4	-.1050007500+013	.0000000000
5	.9619972620-014	.0000000000	5	-.9450052500+015	.0000000000
6	.7399982733-017	.0000000000	6	-.1039504725+019	.0000000000
7	.4933323757-020	.0000000000	7	-.1351355198+022	.0000000000
8	.2901956050-023	.0000000000	8	-.2027031757+025	.0000000000
9	.1527345672-026	.0000000000	9	-.3445952635+028	.0000000000
10	.7273076135-030	.0000000000	10	-.6547307980+031	.0000000000
11	.3162207565-033	.0000000000	11	-.1374934331+035	.0000000000
12	.1264883213-036	.0000000000	12	-.3162345307+038	.0000000000
13	.4684753240-040	.0000000000	13	-.7905869392+041	.0000000000
14	.1615432332-043	.0000000000	14	-.2134584420+045	.0000000000
15	.5211072547-047	.0000000000	15	-.6190294027+048	.0000000000
16	.1579113030-050	.0000000000	16	-.1918990935+052	.0000000000
17	.4511751862-054	.0000000000	17	-.6332669466+055	.0000000000
18	.1219392480-057	.0000000000	18	-.2216434121+059	.0000000000
19	.3126647579-061	.0000000000	19	-.8200805615+062	.0000000000
20	.7625970137-065	.0000000000	20	-.3198313968+066	.0000000000
30	.5611189240-102	.0000000000	30	-.2921563113+103	.0000000000
31	.8906649605-106	.0000000000	31	-.1782153449+107	.0000000000
40	.1547504397-140	.0000000000	40	-.7977799231+141	.0000000000
41	.1864463156-144	.0000000000	41	-.6462017276+145	.0000000000
50	.3632866512-180	.0000000000	50	-.2725393516+181	.0000000000
51	.3527054705-184	.0000000000	51	-.2752647424+185	.0000000000
60	.1185204694-220	.0000000000	60	-.6972996392+221	.0000000000
61	.9635851237-225	.0000000000	61	-.8437325575+225	.0000000000
70	.7450329476-262	.0000000000	70	-.9519308745+262	.0000000000
71	.5210020637-266	.0000000000	71	-.1342222526+267	.0000000000
80	.1139843234-003	.0000000000	80	-.5449152994+004	.0000000000
81	.6992903303-008	.0000000000	81	-.8773136287+008	.0000000000
90	.5058075195-046	.0000000000	90	-.1092285444+047	.0000000000
91	.2763975525-050	.0000000000	91	-.1977036648+051	.0000000000
99	.1500080180-084	.0000000000	99	-.3349904705+085	.0000000000
100	.7463085493-089	.0000000000	100	-.66666310345+089	.0000000000

REAL X = .1000000000-001		IMAGINARY X = -.1000000000-002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9999835001+000	.333300333-005	0	-.9900490103+002	.9901490087+001
1	.3333301000-002	.3333233667-003	1	-.9705430877+004	-.1960592101+004
2	.6599955233-005	-.1333314476-005	2	-.2824466837+007	-.8706243131+006
3	.9238047593-008	-.2847593121-008	3	-.1355140990+010	-.5708252655+009
4	.9948107191-011	-.4190448290-011	4	-.8996416554+012	-.4895412632+012
5	.8562789304-014	-.4713876301-014	5	-.7580370371+015	-.5163904053+015
6	.6301080969-017	-.4292429927-017	6	-.7693434530+018	-.6449633915+018
7	.3914559913-020	-.3281693597-020	7	-.9072282004+021	-.9291747885+021
8	.2109642015-023	-.2160677021-023	8	-.1209371589+025	-.1514698774+025
9	.9966182441-027	-.1248232582-026	9	-.1780525737+028	-.2753049650+028
10	.4151405280-030	-.6418546281-030	10	-.2831790342+031	-.5513971976+031
11	.1525891747-033	-.2971168742-033	11	-.4741409707+034	-.1205347955+035
12	.4915099842-037	-.1249503365-036	12	-.8052415020+037	-.2852823923+038
13	.1357628374-040	-.4809831617-040	13	-.1287027025+041	-.7260761351+041
14	.3022914478-044	-.1705377593-043	14	-.1499570881+044	-.1975400996+045
15	.4250118302-048	-.5598731961-047	15	.1366246173+047	-.5714999714+048
16	.4086711368-052	-.1709464735-050	16	.2173451858+051	-.1749915197+052
17	.6051817991-055	-.4872509002-054	17	.1281892192+055	-.5646530358+055
18	.2952521192-058	-.1300538145-057	18	.6398918890+058	-.1912296259+059
19	.1090528143-061	-.3259007709-061	19	.3044702451+062	-.6771025336+062
20	.3454704950-065	-.7682817209-065	20	.1437132554+066	-.2496986428+066
30	.6439766506-102	-.9833770893-103	30	.2500630944+103	-.1298106283+102
31	.1037794345-105	-.5387308174-107	31	.1518122061+107	.7262773349+105
40	.1253073673-140	.1412548196-140	40	.3811614043+141	.5272182396+141
41	.1339540801-144	.1852838058-144	41	.2634020342+145	.4533869719+145
50	.1247361131-180	.4488816863-180	50	-.7660863994+180	.1970981343+181
51	.1646837710-184	.4236971638-184	51	-.9631845280+184	.1894372683+185
60	.1524679672-220	.4767659521-221	60	-.5041634955+221	.1039835635+221
61	.1278338438-224	.2636568983-225	61	-.6164552837+225	.6417458180+224
70	.8115476906-262	-.6747538145-262	70	-.4690590671+262	.4765205871+262
71	.5203302851-266	-.5286074041-266	71	-.5883008694+266	-.7307241121+266
80	-.2023353863-004	-.1684966245-003	80	.7918260948+003	-.3554652158+004
81	-.2275043027-008	-.1021308413-007	81	.1828850502+008	-.5540104902+008
90	-.7111066722-046	-.3475464460-046	90	.6512742915+046	-.2413793433+046
91	-.4075744946-050	-.1510578025-050	91	.1210392203+051	-.3158573890+050
99	-.2218481522-084	.1050980173-084	99	.1744853275+085	.1050873474+085
100	-.1051434562-088	.6332479248-089	100	.3230825927+089	.2414320803+089

REAL X = .1000030000-001		IMAGINARY X = -.1000000000-001			
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.999999997+000	.333333333-004	0	-.4999499992+002	-.5000499992+002
1	.333340000-002	-.333326666-002	1	-.4999999997+000	-.5000000025+004
2	.1904761905-009	-.133333333-004	2	.7499749987+006	-.7500249988+006
3	-.1904740741-007	-.1904783069-007	3	.3749999999+009	-.7499999996+004
4	-.4232804233-010	-.3848003848-015	4	.1312518750+012	.1312481250+012
5	-.3848033448-013	.3847974248-013	5	.1312500000+010	.1181250000+015
6	-.3946670613-021	.5920005920-015	6	-.6496815937+017	.6496934062+017
7	.3946647398-019	.3946693829-019	7	-.8445937500+020	.6496875000+015
8	.4643141898-022	.2443758894-027	8	-.6334495355+023	-.6334410895+023
9	.2443770531-025	-.2443747257-025	9	-.6334453125+021	-.1076857031+027
10	.1011908445-033	-.2327369423-028	10	.1023008795+030	-.1023019564+030
11	-.1011904397-031	-.1011912492-031	11	.2148329777+033	-.1023014180+028
12	-.8095267557-035	-.2998247243-040	12	.2470589986+036	.2470568502+036
13	-.2998257582-038	.2998236904-038	13	.2470579244+034	.6176448110+039
14	-.6670182966-047	.2067756719-041	14	-.8338174066+042	.8338235830+042
15	.6670162753-045	.6670203179-045	15	-.2418079435+046	.8338204948+040
16	.4042535131-048	.1155010037-053	16	-.3748035215+049	-.3748011034+049
17	.1155013159-051	-.1155006916-051	17	-.3748023124+047	-.1236847631+053
18	.1500845513-060	-.6243297500-055	18	.2164477170+056	-.2164489538+056
19	-.1600841608-058	-.1600849417-058	19	.8008588411+059	-.2164483354+054
20	-.7809002501-062	-.1816047093-067	20	.1561678744+063	.1561670736+063
30	-.2918533253-103	.1838675950-097	30	-.4457940194+098	.4457955305+098
31	.2918528763-101	.2918537743-101	31	-.2719348127+102	.4457947750+096
40	.1622676948-134	.1955032468-140	40	-.3804113522+135	-.3804103891+135
41	.1955034768-138	-.1955030168-138	41	-.3804108706+133	-.3081328052+139
50	.1183482609-176	-.1218988248-172	50	.4061146657+173	-.4061154861+173
51	-.1183482609-176	-.1183484863-176	51	.4101762267+177	-.4061150759+171
60	-.1272609736-211	-.1034642062-217	60	.3247055840+212	.3247050323+212
61	-.1034642690-215	.1034641234-215	61	.3247053112+210	.3928934265+216
70	-.1790150078-257	.2559914610-251	70	-.1385240244+252	.1385242237+252
71	.1790148843-255	.1790151312-255	71	-.1953190149+256	.1385241241+250
80	.1253271274-291	.7688780825-298	80	-.2477988668+292	-.2477985551+292
81	.7688785483-296	-.7688776163-296	81	-.2477987110+290	-.3989559246+296
90	.9724876962-039	-.1779652483-032	90	.155229675+033	-.1552231409+033
91	-.9724871702-037	-.9724882216-037	91	.2609537281+037	-.1552230542+031
99	-.8444698576-070	-.8444706979-070	99	.2975312311+070	-.1510310818+064
100	-.8402689331-074	-.4139255830-080	100	.29604372338+074	.2960434262+074

REAL X = .1000000000+000		IMAGINARY X = .0000000000	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	SECOND KIND REAL BESSEL
0	.9983341665+000	.0000000000	-.9950041653+001
1	.3330001190+001	.0000000000	-.1004987507+003
2	.6661906084+003	.0000000000	-.3005012479+004
3	.9518519721+005	.0000000000	-.1501501252+006
4	.1057720150+006	.0000000000	-.1050750375+008
5	.9616310233+009	.0000000000	-.9455251876+009
6	.7397541094+011	.0000000000	-.1039972631+012
7	.4931847476+013	.0000000000	-.151869868+014
8	.2901200103+015	.0000000000	-.2027700805+016
9	.1526985693+017	.0000000000	-.3446956181+018
10	.7271510997+020	.0000000000	-.6549013975+020
11	.3161581505+022	.0000000000	-.1375258465+023
12	.1264651338+024	.0000000000	-.3163028980+025
13	.4683953605+027	.0000000000	-.7907434923+027
14	.1615174403+029	.0000000000	-.2134975799+030
15	.5210290941+032	.0000000000	-.6191350743+032
16	.1578889713+034	.0000000000	-.1919297380+035
17	.4511148301+037	.0000000000	-.6333619442+037
18	.1219237720+039	.0000000000	-.2216747612+040
19	.3126270115+042	.0000000000	-.8201902827+042
20	.7625092312+045	.0000000000	-.3198719935+045
30	.5610748378+072	.0000000000	-.2921808238+072
31	.8905971555+075	.0000000000	-.1782298073+075
40	.1547412109+100	.0000000000	-.7978299122+100
41	.1864354581+103	.0000000000	-.6462412189+103
50	.3632691727+130	.0000000000	-.2725529789+130
51	.3526888433+133	.0000000000	-.2752782334+133
60	.1185161998+160	.0000000000	-.6973286451+160
61	.9635469665+164	.0000000000	-.8437670746+163
70	.7450071584+192	.0000000000	-.9519647748+191
71	.5209842781+195	.0000000000	-.1342269648+195
80	.1139808620+223	.0000000000	-.5449322640+223
81	.6992693519+227	.0000000000	-.8773406024+226
90	.5057938380+256	.0000000000	-.1092315650+256
91	.2763901571+259	.0000000000	-.1977090717+259
99	.1500043239+285	.0000000000	-.3349988878+265
100	.7462903513+289	.0000000000	-.6666476167+288

REAL X = .1000000000+000		IMAGINARY X = -.1000000000-001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9983507832+000	.3330034484-003	0	-.9851030503+001	-.9950865584+000
1	.3330101072-001	-.3323372499-002	1	-.9754807204+002	-.1960617071+002
2	.6595524460-003	-.1331448386-003	2	-.2829380305+004	-.8711131684+003
3	.9233331642-005	-.2845027202-005	3	-.1356583424+006	-.5711164130+005
4	.9944053106-007	-.4187686788-007	4	-.9003410701+007	-.4897567786+007
5	.8659883138-009	-.4711440139-009	5	-.7585067704+009	-.5165882320+009
6	.6299305909-011	-.4290612031-011	6	-.7697443638+011	-.6451815193+011
7	.3913622684-013	-.3280519810-013	7	-.9076410557+013	-.9294560069+013
8	.2109210511-015	-.2160009901-015	8	-.1209866771+016	-.1515113867+016
9	.9964445326-018	-.1247894354-017	9	-.1781299486+018	-.2753739653+018
10	.4150797065-020	-.6417000184-020	10	-.2832808211+020	-.5515246749+020
11	.1525710305-022	-.2970525970-022	11	-.4743084668+022	-.1205606908+023
12	.4914665898-025	-.1249258579-024	12	-.8055359143+024	-.2853397160+025
13	.1357563147-027	-.4808972561-027	13	-.1287566922+027	-.7262133774+027
14	.3022981188-030	-.1705098372-029	14	-.1500567535+029	-.1975754066+030
15	.4251166587-033	-.5597887857-032	15	.1364525728+031	-.5715970200+032
16	-.4081304502-036	-.1709226556-034	16	.2127323652+034	-.1750198789+032
17	-.6049712939-038	-.4871879887-037	17	.1281913145+037	-.5647407394+037
18	-.2951820120-040	-.1300382231-039	18	.6399273907+039	-.1912582129+040
19	-.1090319122-042	-.3258644529-042	19	.3044924541+042	-.6772003669+042
20	-.3454134391-045	-.7682021211-045	20	.1437249753+045	-.2497336690+045
30	-.6439250150-072	-.9834017881-073	30	.2500836475+072	-.1298633740+071
31	-.1037715286-074	-.5388482552-076	31	.1518245204+075	.7260892793+073
40	-.1253016538-100	.1412449853-100	40	.3811916565+100	.5272461680+100
41	-.1339485153-103	.1852715639-103	41	.2634235122+103	.4534111831+103
50	.1247258643-130	.4488615289-130	50	-.7661046108+129	.1971086570+130
51	.1646720905-133	.4236789423-133	51	-.9632126931+132	.1894474041+133
60	.1524615091-160	.4767592287-161	60	-.5041833926+150	.1039920402+160
61	.1278286234-163	.2636566861-164	61	-.6164797256+163	.6418222485+162
70	.8115245511-192	-.6747250734-192	70	-.4690789983+191	-.4765340464+191
71	.5203163120-195	-.5285839868-195	71	-.5883264471+194	-.7307453783+194
80	-.2023190697-224	-.1684916817-223	80	.7918283664+222	-.3554766647+223
81	-.2274914182-227	-.1021279445-226	81	.1828872102+226	-.5540284779+226
90	-.7110857558-256	-.3475409862-256	90	.6512907867+255	-.2413895538+255
91	-.4075628901-259	-.1510559822-259	91	.1210423247+259	-.3158725613+258
99	-.2218432611-285	.1050943623-285	99	.1744901961+285	.1050890847+285
100	-.1051412288-288	.6332275106-289	100	.3230917500+288	.2414364184+288

REAL X = .1000000000+000		IMAGINARY X = -.5000000000-001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.9987496358+000	0	.1665416803-002	0	-.7950010433+001	0	-.4024942726+001				
1	.332498587-001	1	-.1662084859-001	1	-.4849906220+002	1	-.6400124896+002				
2	.5002080916-003	2	-.6659524719-003	2	-.3880124948+003	2	-.2113993779+004				
3	.2387232838-005	3	-.1308845872-004	3	.2680787484+005	3	-.9225599979+005				
4	-.4620838244-007	4	-.1586970778-006	4	.4084796998+007	4	-.4413601499+007				
5	-.1141572634-008	5	-.1232647416-008	5	.4529682299+009	5	-.1706343600+009				
6	-.1352306074-010	6	-.5090741487-011	6	.4736503128+011	6	.4919192039+010				
7	-.1071255903-012	7	.1114312149-013	7	.4669712299+013	7	.2974748233+013				
8	-.5973787298-015	8	.3806503729-015	8	.3818332168+015	8	.6371476067+015				
9	-.2142337722-017	9	.3575593208-017	9	.8598610524+016	9	.1126137585+018				
10	-.1687859105-020	10	.2212781697-019	10	-.2711043575+022	10	.1777014854+020				
11	.4076770087-022	11	.9987752550-022	11	-.7174260662+024	11	.2376101093+022				
12	.3628350508-024	12	.3179737658-024	12	-.1622593844+027	12	.1877688220+024				
13	.1932698806-026	13	.5057440141-027	13	-.4384615888+031	13	-.3419121831+026				
14	.7536496264-029	14	-.1586391518-029	14	-.3135465803+029	14	-.2490950444+029				
15	.2174934700-031	15	-.1727982203-031	15	-.4384615888+031	15	-.9416111170+034				
16	.3972518286-034	16	.8531755109-034	16	.8024439957+032	16	-.2878663031+034				
17	-.8784348273-038	17	-.3005162257-035	17	.4011988262+036	17	-.7494181633+036				
18	-.428771872-039	18	-.8008770063-039	18	.2172541339+039	18	-.1536663712+039				
19	-.2128118071-041	19	.1503817891-041	19	.8704944538+041	19	-.1333088463+041				
20	-.7015869171-044	20	-.1074888794-044	20	.2923882771+044	20	.9420631141+043				
30	.3601674527-071	30	-.1553497553-070	30	.2148289303+070	30	-.8940204746+070				
31	-.6612481269-074	31	.2751719741-073	31	.3229779073+073	31	-.3878620353+073				
40	.1280758428-098	40	.4013998404-099	40	-.4838630451+101	40	-.1310184884+098				
41	.1784891065-101	41	-.2879297922-102	41	-.8122131889+098	41	-.3480574019+101				
50	-.3563230379-128	50	.8931206715-128	50	-.7729954542+126	50	.9177088661+127				
51	.8761004950-132	51	.1040680437-130	51	-.4332128000+130	51	.7102787814+130				
60	-.8597554698-158	60	-.4211760612-158	60	.7720815958+157	60	.6275810375+155				
61	-.8701983877-161	61	.7075100885-163	61	.7443366841+160	61	.3797627959+160				
70	.9307202552-189	70	-.1583307042-188	70	-.2339222331+187	70	-.3445983437+188				
71	.9724880881-193	71	-.1432634949-191	71	.1679671787+191	71	-.4018999061+191				
80	.7041580943-220	80	.4893600374-220	80	-.6411872228+219	80	.9276956202+218				
81	.5821094654-223	81	.8422127344-224	81	-.8855923668+222	81	-.2934376356+222				
90	-.7331129381-252	90	.9005861546-252	90	.9269760877+250	90	.4153200328+251				
91	-.1545462017-255	91	.6924278623-255	91	-.1664657340+254	91	.6684962701+254				
99	-.3205707155-281	99	-.8837042350-281	99	.3468394717+280	99	-.3290962235+280				
100	-.3793150002-284	100	-.3599098624-284	100	.8141289404+283	100	-.2478367132+283				

REAL X = .100000000+000		IMAGINARY X = -.100000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.9999966674-000	0	.3333331746-002	0	-.4949916722+001	0	-.4949916722+001	0	-.5049916611+001	0	-.5049916611+001
1	.3339995236-001	1	.3326661907-001	1	-.4999972222+000	1	-.4999972222+000	1	-.5002500000+002	1	-.5002500000+002
2	.1904761584-005	2	.1333332275-002	2	.7474874584+003	2	.7474874584+003	2	-.7524875417+003	2	-.7524875417+003
3	-.1902644541-004	3	-.1906877245-004	3	.3749987500+005	3	.3749987500+005	3	-.7499958333+002	3	-.7499958333+002
4	-.4232802753-006	4	-.3848003519-009	4	.1314373123+007	4	.1314373123+007	4	.1310623127+007	4	.1310623127+007
5	-.3850962864-008	5	.3845042859-008	5	.1312499375+006	5	.1312499375+006	5	.11A1249063+009	5	.11A1249063+009
6	-.3946670416-013	6	.5920004759-010	6	-.6490965470+010	6	-.6490965470+010	6	.6502777967+010	6	.6502777967+010
7	.3944348432-012	7	.3948991573-012	7	-.A445934547+012	7	-.A445934547+012	7	.6496873906+009	7	.6496873906+009
8	.4643141316-014	8	.2443758809-017	8	-.63338674469+014	8	-.63338674469+014	8	-.6330228533+014	8	-.6330228533+014
9	.2444922335-016	9	.2442594946-016	9	-.63334452584+013	9	-.63334452584+013	9	-.1076856820+017	9	-.1076856820+017
10	.1011908420-021	10	-.2327389220-018	10	.1022475593+019	10	.1022475593+019	10	-.1023552450+019	10	-.1023552450+019
11	-.1011503606-020	11	-.1012313133-020	11	.2148329508+021	11	.2148329508+021	11	-.1023014127+018	11	-.1023014127+018
12	-.8095267040-023	12	.2998247188-026	12	.2471653153+023	12	.2471653153+023	12	.2469504823+023	12	.2469504823+023
13	-.2999280955-025	13	.2997213198-025	13	.2470579159+022	13	.2470579159+022	13	.6176447573+025	13	.6176447573+025
14	-.6670182870-031	14	.2067756618-027	14	-.83355116107+027	14	-.83355116107+027	14	.8341292555+027	14	.8341292555+027
15	.6668161410-030	15	.6672203945-030	15	-.2418079281+030	15	-.2418079281+030	15	.8338204742+026	15	.8338204742+026
16	.4042534975-032	16	.1155010024-035	16	-.3749231956+032	16	-.3749231956+032	16	-.3746813876+032	16	-.3746813876+032
17	.1155322162-034	17	-.1154697833-034	17	-.3748023055+031	17	-.3748023055+031	17	-.1236847571+035	17	-.1236847571+035
18	.1600345498-040	18	.6243297304-037	18	.2163864837+037	18	.2163864837+037	18	-.2165101684+037	18	-.2165101684+037
19	-.1600455017-039	19	-.1601235917-039	19	.8008568102+039	19	.8008568102+039	19	-.2164483323+036	19	-.2164483323+036
20	-.7909002299-042	20	-.1816047079-045	20	.1562075115+042	20	.1562075115+042	20	.1561274257+042	20	.1561274257+042
30	-.2918533242-071	30	.1838675927-067	30	-.4457192099+067	30	-.4457192099+067	30	.4458703268+067	30	.4458703268+067
31	.2918084215-070	31	.2918982225-070	31	-.2719348089+070	31	-.2719348089+070	31	.4457947727+066	31	.4457947727+066
40	.1622676937-094	40	.1955032463-098	40	-.3804590208+094	40	-.3804590208+094	40	-.3803627142+094	40	-.3803627142+094
41	.195262458-097	41	-.1954802451-097	41	-.3804108696+093	41	-.3804108696+093	41	-.3081328028+097	41	-.3081328028+097
50	.1183483734-126	50	-.1218988243-122	50	.4060740521+122	50	.4060740521+122	50	-.4061560955+122	50	-.4061560955+122
51	-.1183371018-125	51	.1183596444-125	51	.4101762246+125	51	.4101762246+125	51	-.4061150752+121	51	-.4061150752+121
60	-.1272609732-151	60	-.1034642061-155	60	.3247325962+151	60	.3247325962+151	60	.3246780239+151	60	.3246780239+151
61	.1034724830-154	61	.1034559288-154	61	.3247053108+150	61	.3247053108+150	61	.3928934252+154	61	.3928934252+154
70	-.1790150076-185	70	.2559914604-181	70	-.1385141579+181	70	-.1385141579+181	70	.1385340895+181	70	.1385340895+181
71	.1790026614-184	71	.1790273532-184	71	-.1953190144+184	71	-.1953190144+184	71	.1385241239+180	71	.1385241239+180
80	.1253271272-211	80	.7688780819-216	80	-.2478142953+211	80	-.2478142953+211	80	-.2477831256+211	80	-.2477831256+211
81	.7689246796-215	81	-.7688314823-215	81	-.2477987108+210	81	-.2477987108+210	81	-.3989559238+214	81	-.3989559238+214
90	.9724876954-247	90	-.1779652481-242	90	.1552143823+242	90	.1552143823+242	90	-.1552317256+242	90	-.1552317256+242
91	-.9724351276-246	91	-.9725402614-246	91	.2809537277+245	91	.2809537277+245	91	-.1552230541+241	91	-.1552230541+241
99	-.8444282633-271	99	-.8445122902-271	99	.2975312308+270	99	.2975312308+270	99	-.1510310817+266	99	-.1510310817+266
100	-.8402689321-274	100	-.4139255826-278	100	.2960584512+273	100	.2960584512+273	100	.2960286981+273	100	.2960286981+273

REAL X = .5000000000+000		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND REAL BESSEL	N	FIRST KIND IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.988510772+000	0	.0000000000	0	-.1755165124+001	0	.0000000000	0	.0000000000	0	.0000000000
1	.1625370306+000	1	.0000000000	1	-.4469181325+001	1	.0000000000	1	-.4469181325+001	1	.0000000000
2	.1637110661+001	2	.0000000000	2	.2505992282+002	2	.0000000000	2	-.2505992282+002	2	.0000000000
3	.1174035444+002	3	.0000000000	3	-.2461300469+003	3	.0000000000	3	-.2461300469+003	3	.0000000000
4	.6538950615+004	4	.0000000000	4	-.3420760734+004	4	.0000000000	4	-.3420760734+004	4	.0000000000
5	.2977466875+005	5	.0000000000	5	-.6132756317+005	5	.0000000000	5	-.6132756317+005	5	.0000000000
6	.1146651077+006	6	.0000000000	6	-.1345785629+007	6	.0000000000	6	-.1345785629+007	6	.0000000000
7	.3825924069+008	7	.0000000000	7	-.3492909879+008	7	.0000000000	7	-.3492909879+008	7	.0000000000
8	.1126143960+009	8	.0000000000	8	-.1046527178+010	8	.0000000000	8	-.1046527178+010	8	.0000000000
9	.2965395717+011	9	.0000000000	9	-.3554699495+011	9	.0000000000	9	-.3554699495+011	9	.0000000000
10	.7064123964+013	10	.0000000000	10	-.1349739281+013	10	.0000000000	10	-.1349739281+013	10	.0000000000
11	.1536347347+014	11	.0000000000	11	-.5665350281+014	11	.0000000000	11	-.5665350281+014	11	.0000000000
12	.3073833515+016	12	.0000000000	12	-.2604711390+016	12	.0000000000	12	-.2604711390+016	12	.0000000000
13	.5694102833+018	13	.0000000000	13	-.1301789160+018	13	.0000000000	13	-.1301789160+018	13	.0000000000
14	.9820150200+020	14	.0000000000	14	-.7027056753+019	14	.0000000000	14	-.7027056753+019	14	.0000000000
15	.1584282443+021	15	.0000000000	15	-.4074391127+021	15	.0000000000	15	-.4074391127+021	15	.0000000000
16	.2400947730+023	16	.0000000000	16	-.2525419793+023	16	.0000000000	16	-.2525419793+023	16	.0000000000
17	.3430587719+025	17	.0000000000	17	-.1665369624+025	17	.0000000000	17	-.1665369624+025	17	.0000000000
18	.4636732791+027	18	.0000000000	18	-.1166206195+027	18	.0000000000	18	-.1166206195+027	18	.0000000000
19	.5945458910+029	19	.0000000000	19	-.8628259474+028	19	.0000000000	19	-.8628259474+028	19	.0000000000
20	.7251588081+031	20	.0000000000	20	-.6728876184+030	20	.0000000000	20	-.6728876184+030	20	.0000000000
30	.5215472608+051	30	.0000000000	30	-.5287310662+050	30	.0000000000	30	-.5287310662+050	30	.0000000000
31	.4139516707+053	31	.0000000000	31	-.7669986145+052	31	.0000000000	31	-.7669986145+052	31	.0000000000
40	.1405329805+072	40	.0000000000	40	-.1757113595+072	40	.0000000000	40	-.1757113595+072	40	.0000000000
41	.8466142216+075	41	.0000000000	41	-.2846412810+074	41	.0000000000	41	-.2846412810+074	41	.0000000000
50	.3222721537+095	50	.0000000000	50	-.6144791292+094	50	.0000000000	50	-.6144791292+094	50	.0000000000
51	.1564464096+097	51	.0000000000	51	-.1241216806+097	51	.0000000000	51	-.1241216806+097	51	.0000000000
60	.1026961759+118	60	.0000000000	60	-.1609552657+118	60	.0000000000	60	-.1609552657+118	60	.0000000000
61	.4174709179+121	61	.0000000000	61	-.3895049800+120	61	.0000000000	61	-.3895049800+120	61	.0000000000
70	.6305162791+143	70	.0000000000	70	-.2249704639+142	70	.0000000000	70	-.2249704639+142	70	.0000000000
71	.2204628956+145	71	.0000000000	71	-.6344096156+144	71	.0000000000	71	-.6344096156+144	71	.0000000000
80	.9421337382+158	80	.0000000000	80	-.1318560137+167	80	.0000000000	80	-.1318560137+167	80	.0000000000
81	.2890007656+170	81	.0000000000	81	-.4245722178+169	81	.0000000000	81	-.4245722178+169	81	.0000000000
90	.4083091760+193	90	.0000000000	90	-.2706256208+192	90	.0000000000	90	-.2706256208+192	90	.0000000000
91	.1115607080+195	91	.0000000000	91	-.9796571878+194	91	.0000000000	91	-.9796571878+194	91	.0000000000
99	.2365238425+216	99	.0000000000	99	-.4249202980+215	99	.0000000000	99	-.4249202980+215	99	.0000000000
100	.5883713725+219	100	.0000000000	100	-.1691172001+218	100	.0000000000	100	-.1691172001+218	100	.0000000000

REAL X = .5000000000+000		IMAGINARY X = -.1000000000-001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9588665124+000	.1625386482-002	0	-.1754359366+001	-.4467585789-001
1	.1625418833+000	-.3087059952-002	1	-.4464395998+001	-.1610876920+000
2	.1636514187-001	-.6431131065-003	2	-.2500198356+002	-.1456977152+001
3	.1172672212-002	-.6978000336-004	3	-.2451641927+003	-.1940125561+002
4	.6523535390-004	-.5199396049-005	4	-.3400494165+004	-.3386705243+003
5	.2965685194-005	-.2963675572-006	5	-.6081738436+005	-.7297919153+004
6	.1139823519-006	-.1370348399-007	6	-.1330837182+007	-.1869003044+006
7	.3793976096-008	-.5334432272-009	7	-.3442996488+008	-.5541925640+007
8	.1113593970-009	-.1793859681-010	8	-.1027831289+010	-.1866541114+009
9	.2922887352-011	-.5310846759-012	9	-.3477098690+011	-.7036806200+010
10	.6937527725-013	-.1404543209-013	10	-.1314395529+013	-.2935204487+012
11	.1502698977-014	-.3356707368-015	11	-.5490130962+014	-.1341954365+014
12	.2993068730-016	-.7317648048-017	12	-.2510795023+016	-.6672476759+015
13	.5517360125-018	-.1466513088-018	13	-.1247676731+018	-.3584541574+017
14	.9464721790-020	-.2719586134-020	14	-.6693552080+019	-.2068906460+019
15	.1518161522-021	-.4693037991-022	15	-.3855470528+021	-.1276741657+021
16	.2286511657-023	-.7572549352-024	16	-.2372941331+023	-.8388451502+022
17	.3245426894-025	-.1147368188-025	17	-.1554061197+025	-.5845990598+024
18	.4355445107-027	-.1638525790-027	18	-.1078989466+027	-.4307199926+026
19	.5542743030-029	-.2212732710-029	19	-.7916054386+028	-.3345095515+028
20	.6706408286-031	-.2834083203-031	20	-.6118811985+030	-.2731141601+030
30	.4330890300-051	-.2961908436-051	30	-.5086088460+050	-.3629719176+050
31	.3390401108-053	-.2419621219-053	31	-.6113579957+052	-.455238734+052
40	.9871355338-073	-.1016053480-072	40	-.1189171790+072	-.1274010609+072
41	.5824380990-075	-.6239965385-075	41	-.1884349699+074	-.2101506911+074
50	.1759239069-095	-.2738756964-095	50	-.3184309631+094	-.5182304195+094
51	.8274275488-098	-.1346605545-097	51	-.6220286121+096	-.1059240500+097
60	.3768135681-119	-.9686462093-119	60	-.5467155746+117	-.1493092395+118
61	.1453031784-121	-.3968286911-121	61	-.1250261678+120	-.3638227038+120
70	.1088172942-143	-.6300764225-143	70	-.3336925870+141	-.2192744689+142
71	.3364217498-146	-.2210700822-145	71	-.8170017948+143	-.6199801093+144
80	-.2772002407-169	-.9569249378-168	80	.6348930038+165	-.1295820938+167
81	-.1437402265-171	-.2933679161-170	81	.2877701256+168	-.4166747205+169
90	-.9434513557-194	-.4048769680-193	90	.6547179358+191	-.2575542844+192
91	-.2799004103-196	-.1101073797-195	91	.2555509170+194	-.927228267+194
99	-.9592586041-217	-.2213621805-216	99	.1732178432+215	-.3787801294+215
100	-.2496352548-219	-.5458830614-219	100	.7192660022+217	-.1493149809+218

REAL X =	.5000000000+000		IMAGINARY X =		-.1000000000+000	
	FIRST KIND	SECOND KIND	REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL
N						
0	.9603953523+000		.1626988426-001		-.1677633909+001	-.4315717780+000
1	.1630225818+000		-.3090071128-001		-.4020625263+001	-.1491459423+001
2	.1577420959-001		-.6440239540-002		-.1979736635+002	-.1281218481+002
3	.1037586461-002		-.6896504715-003		-.1616998497+003	-.1597744837+003
4	.5005172505-004		-.5001479768-004		-.1726769308+004	-.2573343921+004
5	.1821541870-005		-.2734286213-005		-.2081696305+005	-.5035614868+005
6	.4902539769-007		-.1193489089-006		-.2255868201+006	-.1150724645+007
7	.8376168361-009		-.4309520425-008		.1347696843+006	-.2984569408+008
8	-.7557391879-012		-.1317754867-009		.1762998705+009	-.8590052409+009
9	-.7147426255-012		-.3465704570-011		.1138008757+011	-.2690028803+011
10	-.3355411521-013		-.7914562693-013		.6122136200+012	-.8988739558+012
11	-.1074271364-014		-.1575140330-014		.3197276729+014	-.3132897638+014
12	-.277990930-016		-.2721127769-016		.1690708823+016	-.1101969832+016
13	-.6158356886-018		-.4009941671-018		.9184796903+017	-.3669117428+017
14	-.1200433362-019		-.4790064290-020		.5148362185+019	-.9502108626+018
15	-.2091229413-021		-.3852403345-022		.2976268566+021	.4468202055+019
16	-.3285947451-023		.5030346367-025		.1768471645+023	.3815951700+022
17	-.4680627683-025		.1011253218-025		.1073568453+025	.4666215600+024
18	-.6052685188-027		.2632450373-027		.6596028632+026	.4585528746+026
19	-.7085620876-029		.4928089945-029		.4039698483+028	.4200979060+028
20	-.7439601672-031		.7739541794-031		.2398967400+030	.3756230515+030
30	.8784353755-051		.3327655850-051		-.3376673580+050	.5614664550+049
31	.7500378718-053		.1246544722-053		-.4092549863+052	-.1336810587+051
40	-.1269548148-073		-.3076818109-072		.1858359733+071	-.7640244260+071
41	-.4472210532-075		-.1838265321-074		.5275008434+073	-.1132168273+074
50	-.7756723013-095		.3694585210-095		.1810292516+094	.1353169221+094
51	-.3406753981-097		.2546655887-097		.2990385781+096	.3331449946+096
60	.2497553917-118		.2204009151-118		-.4209032201+117	.2441676572+117
61	.1194476708-120		.6928885619-121		-.1093025654+120	.3722636765+119
70	.7822843909-143		-.2361984983-142		-.6827641746+140	-.5548335227+141
71	.1083492430-145		-.8805847924-145		.1157628031+143	-.1541459796+144
80	-.4507629699-167		.3766958374-168		.2587552138+166	.7461987433+165
81	-.1359608997-169		.3921011240-170		.7549304219+168	.3912630819+168
90	.1115246159-192		.2108266754-192		-.2870543386+191	.3521158102+191
91	.4199223971-195		.5' 50891659-195		-.1244290634+194	.1025788456+194
99	.1268768939-215		-.1052195486-215		-.3764441429+214	-.4645166933+214
100	.2632668822-218		-.3248655596-218		-.1085076934+217	-.2065784330+217

REAL X = .500000000+000	IMAGINARY X = -.500000000+000	IMAGINARY BESSEL	N	REAL BESSEL	SECOND KIND	IMAGINARY BESSEL
0	0	.8330853253-001	0	-.7397584859+000		IMAGINARY BESSEL
1	1	-.1581259095+000	1	-.4982640439+000		-.1239411281+001
2	2	-.3331679954-001	2	.5987434905+002		-.2062478299+001
3	3	-.2446333586-002	3	.4346152014+003		-.6442815749+001
4	4	-.6012164835-005	4	.2099375651+003		-.2909594184+001
5	5	.1179184419-004	5	-.8124406634+005		.4086360992+003
6	6	.9248875685-006	6	..2161687539+007		.7556251305+004
7	7	.3128380108-007	7	-.3296770340+008		.85023444147+005
8	8	.2386431827-010	8	-.1621533378+008		.4157562539+005
9	9	-.4715837780-010	9	.2067363929+011		-.3188670215+008
10	10	-.2272717710-011	10	.8798869594+012		-.11025666470+010
11	11	-.4990139390-013	11	.2045765896+014		-.2122496757+011
12	12	-.1829963686-016	12	.1011927434+014		-.1947532737+011
13	13	.3628291414-016	13	-.2706836232+017		.2001769250+014
14	14	.1262019992-017	14	-.1584649292+019		.1011894262+016
15	15	.2050944146-019	15	-.4952055391+020		.2757434778+017
16	16	.4405981826-023	16	-.2486275974+020		.1366116417+017
17	17	-.8752296091-023	17	.1126676223+024		-.4872820818+020
18	18	-.2381582445-024	18	.8397410957+025		-.3242222010+022
19	19	-.3071934390-026	19	.3295922244+027		-.1142887667+024
20	20	-.4329772351-030	20	-.9532715945+045		-.5674012071+023
30	30	.1712387351-046	30	-.1167940986+048		.3254004514+027
31	31	.1364265295-048	31	-.8391753032+065		.9613845929+045
40	40	.4445222916-069	40	-.4182654593+065		.4786670121+045
41	41	.8864272415-069	41	.9121775611+086		-.8338808042+065
50	50	-.1082675928-087	50	.1847263728+089		-.1355175791+068
51	51	-.526822570-090	51	.7502907302+108		.167961915+086
60	60	-.2243520871-112	60	.3743594558+108		.7471448525+108
61	61	.4478061770-112	61	-.9223664989+133		.1811897190+111
70	70	.2168328749-132	70	-.6000618139+154		.3276685781+131
71	71	.7594641049-135	71	-.2995701347+154		.1635403307+131
80	80	.1590002087-158	80	.3837765378+178		-.5981977250+154
81	81	.3175183421-158	81	.1391214135+181		-.1929230118+157
90	90	-.1437590501-179	90	-.3771653369+200		-.3848500393+178
91	91	-.3933150874-182	91	.7515019466+202		-.1921567707+178
99	99	-.1333995293-201	99			-.4786364713+197
100	100	-.81613240745-207	100			.74966161189+202

REAL X = .5000000000+000		IMAGINARY X = -.1500000000+001	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	.1346732161+001	0	.1996118384+000
1	.2871826040+000	1	-.4411139628+000
2	-.1408712410+000	2	.3848834963+000
3	-.3641021654-001	3	-.2713025813+000
4	.1555819643-002	4	-.9131841216+001
5	.1021859204-002	5	-.2309857038+002
6	.4918372227-004	6	.2816705316+003
7	-.9672014443-005	7	.2795294469+004
8	-.1031874735-005	8	-.5990440271+004
9	.2064920075-007	9	-.3303601438+006
10	.7374456181-008	10	-.1702306423+007
11	.2107266356-009	11	.3911078437+008
12	-.2351013338-010	12	.6894357487+009
13	-.1639236959-011	13	-.2203423940+010
14	.1860450967-013	14	-.2110190092+012
15	.5135364663-014	15	-.1744996647+013
16	.1094067976-015	16	.5466966335+014
17	-.7969113146-017	17	.1436539923+016
18	-.4249572207-018	18	-.5285010720+016
19	.2919335928-020	19	-.8246339495+018
20	.7337414792-021	20	-.9780257356+019
21	.5157711754-036	21	-.1039794174+035
22	.7086304778-038	22	.4777142771+036
23	.1355433715-052	23	-.3248905313+051
24	.1607532472-054	24	.1618206786+053
25	.3017351609-070	25	-.1250682663+069
26	.3253676723-072	26	.6314084500+070
27	.9279412109-089	27	-.3558537229+087
28	.9398853363-091	28	.1732605053+089
29	.5461670596-108	29	-.5341231115+106
30	.5316820890-110	30	.2396193673+108
31	.7765299842-128	31	-.3328219956+126
32	.7395879181-130	32	.1307574544+128
33	.3175498973-148	33	-.7197907462+146
34	.3003875312-150	34	.2313635136+148
35	-.3211260873-167	35	-.3053878495+165
36	.4276902841-169	36	-.4701681408+167

IMAGINARY BESSEL	
0	-.1442826384+001
1	-.4717576180+000
2	.3657666801+000
3	.1992174787+001
4	.1283807180+001
5	-.4899326443+002
6	-.2615195534+003
7	.1566072572+004
8	.3011738749+005
9	.39730555414+005
10	-.3645246921+007
11	-.3679882856+008
12	.3740994599+009
13	.1224883236+011
14	.3007412745+011
15	-.3509549654+013
16	-.5424621962+014
17	.7279438346+015
18	.3551929145+017
19	.1433073747+018
20	-.1821395556+020
21	-.1650442000+035
22	-.5820432397+036
23	-.4410466698+051
24	-.2293801471+053
25	-.1458353625+069
26	-.1052616989+071
27	-.3571861471+087
28	-.3448157003+089
29	-.4611975326+106
30	-.5819669070+108
31	-.2462654684+126
32	-.4008271828+128
33	-.4529187013+146
34	-.9456969863+148
35	.2919675848+165
36	-.2484606546+167

REAL X = .5000000000+000		IMAGINARY X = -.3000000000+001	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	N	REAL BESSEL
0	.3112203694+001	0	.1080094372+001
1	.8947440394+000	1	-.2040279480+001
2	-.9659080337+000	2	-.5266931543+000
3	-.2587688377+000	3	.2883555235+000
4	.9395051232-001	4	-.9746363303-001
5	.2804797017-001	5	.2938850084+000
6	-.3626713689-002	6	.2813799839+001
7	-.1449397716-002	7	-.1860648892+001
8	.4576290273-004	8	-.6837653541+002
9	.4181174533-004	9	-.6529061818+002
10	.8593339763-006	10	.2401125031+004
11	-.7392827835-006	11	.8260531379+004
12	-.4182402749-007	12	-.1102252868+006
13	.8396656178-008	13	-.8229259150+006
14	.7647181525-009	14	.5902326153+007
15	-.6083043680-010	15	.8958652334+008
16	-.8604516507-011	16	-.2887168670+009
17	.2396104471-012	17	-.1110733837+011
18	.6703531177-013	18	-.5030182215+010
19	.1711232368-015	19	.1557212352+013
20	-.3796705037-015	20	.7314378410+013
30	-.4906699530-028	30	-.2507853471+026
31	.8177388338-029	31	-.3246092182+027
40	.3233107557-041	40	-.5729019156+039
41	.6079883018-043	41	.2463942679+041
50	.2191248798-056	50	.5023525887+054
51	-.1329663577-057	51	.1361932114+056
60	-.1041467353-071	60	.1408419689+070
61	-.1797508479-073	61	-.6177846192+071
70	-.2729612234-088	70	-.3427159443+086
71	.7873658401-090	71	-.1694989481+088
80	.4107346789-105	80	-.2921949172+103
81	.7060223394-107	81	.1153648611+105
90	.1039718713-122	90	.7276638962+120
91	-.1603470703-124	91	.6093306116+122
99	.6180502700-139	99	.1108574998+137
100	-.1061522653-140	100	.8778078502+138

IMAGINARY BESSEL	
0	-.3125083931+001
1	-.9088200541+000
2	.9925709147+000
3	.3229854565+000
4	-.2157152314+000
5	-.7124164359+000
6	.8405708942+000
7	.1316667639+002
8	.7833072427+000
9	-.3894418325+003
10	-.8030819716+003
11	.1583144359+005
12	.8210451618+005
13	-.7985979366+006
14	-.8453787896+007
15	.4306048452+008
16	.9813169425+009
17	-.1382653387+010
18	-.1296804481+012
19	-.3183404295+012
20	.1915521632+014
30	.1204163919+026
31	-.4776512890+027
40	-.1031777343+040
41	-.1958302444+041
50	-.3318164644+054
51	.1466078395+056
60	.1807670091+070
61	.6712200065+071
70	.3134134691+086
71	-.1329210799+088
80	-.2688548778+103
81	-.1739280347+105
90	-.9164889906+120
91	.3376415101+122
99	-.1175091400+137
100	.5892771584+138

REAL X = .1000000000+001		IMAGINARY X = .0000000000		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	SECOND KIND	N	SECOND KIND	N	SECOND KIND	N	SECOND KIND	N	SECOND KIND
0	.8414709848+000	0	.0000000000	0	.0000000000	0	-.5403023059+000	0	.0000000000	0	.0000000000	0	.0000000000
1	.3011686789+000	1	.0000000000	1	.0000000000	1	-.1381773291+001	1	.0000000000	1	.0000000000	1	.0000000000
2	.6203505201-001	2	.0000000000	2	.0000000000	2	-.3605017566+001	2	.0000000000	2	.0000000000	2	.0000000000
3	.9006581117-002	3	.0000000000	3	.0000000000	3	-.1664331454+002	3	.0000000000	3	.0000000000	3	.0000000000
4	.1011015808-002	4	.0000000000	4	.0000000000	4	-.1128981842+003	4	.0000000000	4	.0000000000	4	.0000000000
5	.9256115861-004	5	.0000000000	5	.0000000000	5	-.9994403434+003	5	.0000000000	5	.0000000000	5	.0000000000
6	.7156936310-005	6	.0000000000	6	.0000000000	6	-.1088094559+005	6	.0000000000	6	.0000000000	6	.0000000000
7	.4790134199-006	7	.0000000000	7	.0000000000	7	-.1404528524+006	7	.0000000000	7	.0000000000	7	.0000000000
8	.2826498802-007	8	.0000000000	8	.0000000000	8	-.2095911840+007	8	.0000000000	8	.0000000000	8	.0000000000
9	.1491376503-008	9	.0000000000	9	.0000000000	9	-.3549004843+008	9	.0000000000	9	.0000000000	9	.0000000000
10	.7116552640-010	10	.0000000000	10	.0000000000	10	-.6722150083+009	10	.0000000000	10	.0000000000	10	.0000000000
11	.3099551855-011	11	.0000000000	11	.0000000000	11	-.1408102512+011	11	.0000000000	11	.0000000000	11	.0000000000
12	.1241662597-012	12	.0000000000	12	.0000000000	12	-.3231913629+012	12	.0000000000	12	.0000000000	12	.0000000000
13	.4604637678-014	13	.0000000000	13	.0000000000	13	-.8065703047+013	13	.0000000000	13	.0000000000	13	.0000000000
14	.1589575988-015	14	.0000000000	14	.0000000000	14	-.2174507909+015	14	.0000000000	14	.0000000000	14	.0000000000
15	.5132686115-017	15	.0000000000	15	.0000000000	15	-.6298007233+016	15	.0000000000	15	.0000000000	15	.0000000000
16	.1556708271-018	16	.0000000000	16	.0000000000	16	-.1950207734+018	16	.0000000000	16	.0000000000	16	.0000000000
17	.4451177504-020	17	.0000000000	17	.0000000000	17	-.6429387516+019	17	.0000000000	17	.0000000000	17	.0000000000
18	.1203855742-021	18	.0000000000	18	.0000000000	18	-.2248335423+021	18	.0000000000	18	.0000000000	18	.0000000000
19	.3088742364-023	19	.0000000000	19	.0000000000	19	-.8312411677+022	19	.0000000000	19	.0000000000	19	.0000000000
20	.7537795722-025	20	.0000000000	20	.0000000000	20	-.3239592219+024	20	.0000000000	20	.0000000000	20	.0000000000
30	.5566831267-042	30	.0000000000	30	.0000000000	30	-.2946428547+041	30	.0000000000	30	.0000000000	30	.0000000000
31	.8838398941-044	31	.0000000000	31	.0000000000	31	-.1796821871+043	31	.0000000000	31	.0000000000	31	.0000000000
40	.1538210374-060	40	.0000000000	40	.0000000000	40	-.8028450851+059	40	.0000000000	40	.0000000000	40	.0000000000
41	.1853528272-062	41	.0000000000	41	.0000000000	41	-.6502028762+061	41	.0000000000	41	.0000000000	41	.0000000000
50	.3615274717-080	50	.0000000000	50	.0000000000	50	-.2739192285+079	50	.0000000000	50	.0000000000	50	.0000000000
51	.3510300060-082	51	.0000000000	51	.0000000000	51	-.2766307493+081	51	.0000000000	51	.0000000000	51	.0000000000
60	.1180401872-100	60	.0000000000	60	.0000000000	60	-.7002354448+099	60	.0000000000	60	.0000000000	60	.0000000000
61	.9597387446-103	61	.0000000000	61	.0000000000	61	-.8472260406+101	61	.0000000000	61	.0000000000	61	.0000000000
70	.7424326831-122	70	.0000000000	70	.0000000000	70	-.9553609989+120	70	.0000000000	70	.0000000000	70	.0000000000
71	.5192087359-124	71	.0000000000	71	.0000000000	71	-.1346990274+123	71	.0000000000	71	.0000000000	71	.0000000000
80	.1136352423-143	80	.0000000000	80	.0000000000	80	-.5466314292+142	80	.0000000000	80	.0000000000	80	.0000000000
81	.6971746491-146	81	.0000000000	81	.0000000000	81	-.8800422203+144	81	.0000000000	81	.0000000000	81	.0000000000
90	.5044275355-166	90	.0000000000	90	.0000000000	90	-.1095340529+165	90	.0000000000	90	.0000000000	90	.0000000000
91	.2754516044-168	91	.0000000000	91	.0000000000	91	-.1982505163+167	91	.0000000000	91	.0000000000	91	.0000000000
99	.1496353502-186	99	.0000000000	99	.0000000000	99	-.3358417058+185	99	.0000000000	99	.0000000000	99	.0000000000
100	.7444727742-189	100	.0000000000	100	.0000000000	100	-.6668307946+187	100	.0000000000	100	.0000000000	100	.0000000000

REAL X = .1000000000+001		IMAGINARY X = -.1000000000-002	
N	FIRST KIND	SECOND KIND	IMAGINARY BESSEL
0	.8414711044+000	.3011687085-003	-.5403011942+000
1	.3011687675+000	-.2391336491-003	-.1381770377+001
2	.6203501199-001	-.1150635394-003	-.3604999120+001
3	.9006557590-002	-.2600872290-004	-.1664316003+002
4	.1011010155-002	-.3951498754-005	-.1128965638+003
5	.9256027212-004	-.4556480192-006	-.9994199679+003
6	.7156832056-005	-.4246246983-007	-.1088064737+005
7	.4790035718-006	-.3324812872-008	-.1404478772+006
8	.2826420925-007	-.2246269922-009	-.2095818713+007
9	.1491323488-008	-.1335110959-010	-.3548811634+008
10	.7116235645-010	-.7085473266-012	-.6721710143+009
11	.3099382806-011	-.3397040020-013	-.1407993454+011
12	.1241581223-012	-.1485363493-014	-.3231621287+012
13	.4604280663-014	-.5970002869-016	-.8064860523+013
14	.1589432081-015	-.2220216338-017	-.2174248142+015
15	.5132149601-017	-.7683230302-019	-.6297154095+016
16	.1556522202-018	-.2486195449-020	-.1949910400+018
17	.4450574259-020	-.7554662258-022	-.6428291539+019
18	.1203672127-021	-.2163753860-023	-.2247909444+021
19	.3088215669-023	-.5860774758-025	-.8310670525+022
20	.7536367171-025	-.1505719683-026	-.3238845610+024
30	.5564412543-042	-.1668939932-043	-.2944968778+041
31	.8834293646-044	-.2738146988-045	-.1795874171+043
40	.1537011461-060	-.6149459800-062	-.8021543559+059
41	.1852009471-062	-.7595311199-064	-.6496161729+061
50	.3610846610-080	-.1806578250-081	-.2735562378+079
51	.3505827025-082	-.1789188184-083	-.2762497874+081
60	.1178315716-100	-.7077414529-102	-.6989121002+099
61	.9579833954-103	-.5850186402-104	-.8455724120+101
70	.7405407546-122	-.5192447667-123	-.9529206794+120
71	.5179192624-124	-.3683057974-125	-.1343452703+123
80	.1132763907-143	-.9080790902-145	-.5448173971+142
81	.6949173069-146	-.5640746989-147	-.8770496631+144
90	.50244088409-166	-.4533649485-167	-.1090759325+165
91	.2745236837-168	-.2504933739-169	-.1974031316+167
99	.1489101161-186	-.1478970037-187	-.3341473588+185
100	.7407909203-189	-.7432330309-190	-.6648689008+187

REAL X = .1000000000+001		IMAGINARY X = -.1000000000-001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8414829415+000	.3011716306-002	0	-.5401911536+000	-.1381676163-001
1	.3011775339+000	-.2391358449-002	1	-.1381481928+001	-.2222846780-001
2	.6203104957+001	-.1150651741-002	2	-.3603173439+001	-.9430228768-001
3	.9004228348+002	-.2600826345-003	3	-.1662786922+002	-.6293764821+000
4	.1010450498+002	-.3951169934-004	4	-.1127362208+003	-.5474727029+001
5	.9247251341+004	-.4555650988-005	5	-.9974039892+003	-.5878348536+002
6	.7146511796+005	-.4244914324-006	6	-.1085114509+005	-.7507824251+003
7	.4780287709+006	-.3323221144-007	7	-.1399557851+006	-.1111091993+005
8	.2818712692+007	-.2244749986-008	8	-.2086609248+007	-.1868876205+006
9	.1486076807+008	-.133898387-009	9	-.3529708683+008	-.3520349054+007
10	.7084867490+010	-.7077173264-011	10	-.6678221833+009	-.7339883234+008
11	.3082656870+011	-.3392052380-012	11	-.1397215426+011	-.1677929644+010
12	.1233531132+012	-.1482692827-013	12	-.3202737079+012	-.4172839827+011
13	.4568968241+014	-.5957103707-015	13	-.7981638882+013	-.1121468137+013
14	.1575200890+015	-.2214540945-016	14	-.2148596563+015	-.3239025061+014
15	.5079103227+017	-.7660298306-018	15	-.6212933130+016	-.1000404927+016
16	.1538129200+018	-.2477626067-019	16	-.1920567147+018	-.3290287824+017
17	.4390956996+020	-.7524896081-021	17	-.6320168064+019	-.1148058387+019
18	.1185530394+021	-.2154088301-022	18	-.2205899269+021	-.4235696050+020
19	.3036190612+023	-.5831314236-024	19	-.8139020518+022	-.1647512887+022
20	.7395299710+025	-.1497258798-025	20	-.3165270055+024	-.6757812159+023
30	.5326462134+042	-.1646682915-042	30	-.2801796135+041	-.8969367131+040
31	.8430609812+044	-.2699029806-044	31	-.1702977439+043	-.5640186195+042
40	.1419703010+060	-.6000168536-061	40	-.7348424639+059	-.3192629257+059
41	.1703495805+062	-.7401264696-063	41	-.5924836707+061	-.2644892519+061
50	.3180842525+080	-.1737232366-080	50	-.2384683217+079	-.1333523869+079
51	.3071611126+082	-.1717679835-082	51	-.2394579727+081	-.1370675024+081
60	.977227452+101	-.6684087275-101	60	-.5722403081+099	-.3998606506+099
61	.7891064242+103	-.5514035189-103	61	-.6874552816+101	-.4906733011+101
70	.5698796340+122	-.4799121438-122	70	-.7220011059+120	-.6204606253+120
71	.3951799276+124	-.3396048287-124	71	-.1009119756+123	-.8848970829+122
80	.7949496353+144	-.8183666612-144	80	-.3754135528+142	-.3942841175+142
81	.4826960776+146	-.5069616354-146	81	-.5979841851+144	-.6407529470+144
90	.3150049819+166	-.3968871188-166	90	-.6692829235+164	-.8607919201+164
91	.1699699788+168	-.2186061028-168	91	-.1195664315+167	-.1569942681+167
99	.8252122749+187	-.1257129958-186	99	-.1605746775+185	-.2811763870+185
100	.4043035922+189	-.6295589499-189	100	-.3537035175+187	-.5530639567+187

REAL X = .1000000000+001		IMAGINARY X = -.1000000000+000			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8426672076+000	.3014639475-001	0	-.5292844832+000	-.1372158621+000
1	.3020546931+000	-.2393554972-001	1	-.1353125521+001	-.2184080882+000
2	.6163451945-001	-.1152287122-001	2	-.3425025544+001	-.9134395054+000
3	.8771081996-002	-.2596228860-002	3	-.1515025366+002	-.5999127356+001
4	.9545242846-003	-.3918264271-003	4	-.9741892043+002	-.5116484669+002
5	.8373220754-004	-.4472756359-004	5	-.8073466986+003	-.5367341880+003
6	.6123837147-005	-.4111960197-005	6	-.8110903929+004	-.6673743507+004
7	.3820807355-006	-.3164901413-006	7	-.9500045976+005	-.9580271204+005
8	.2066408594-007	-.2094180024-007	8	-.1260505758+007	-.1557228603+007
9	.9791865561-009	-.1214470496-008	9	-.1850035524+008	-.2823661911+008
10	.4090268731-010	-.6264032290-010	10	-.2936475865+009	-.5644293438+009
11	.1507613795-011	-.2906867930-011	11	-.4913477561+010	-.1231797739+011
12	.4871223226-013	-.1224995266-012	12	-.8354658598+011	-.2911330740+012
13	.1350955133-014	-.4723759869-014	13	-.1342444903+013	-.7400744712+013
14	.3029183265-016	-.1677383786-015	14	-.1601942536+014	-.2011392713+015
15	.4354061862-018	-.5514056876-017	15	.1189073474+015	-.5813881634+016
16	-.354741186-020	-.1685560127-018	16	.2151023807+017	-.1778797695+018
17	-.5841338415-021	-.4809339340-020	17	.1283882178+019	-.5735818404+019
18	-.2882323258-022	-.1284876083-021	18	.6434605474+020	-.1941390079+021
19	-.1069578744-023	-.3222510655-023	19	.3067150132+022	-.6879564071+022
20	-.3397478986-025	-.7602794799-025	20	.1449000649+024	-.2532614187+024
30	-.6387808827-042	-.9858227630-043	30	.2521474403+041	-.1351790533+040
31	-.1029837605-043	-.5564900399-045	31	.1530609760+043	.7070996656+041
40	-.1247313916-060	.1402647477-060	40	.3842284335+059	.5300460231+059
41	-.1333929197-062	.1840511633-062	41	.2055795968+061	.4558385350+061
50	.1237043518-080	.4468500461-080	50	-.7679249611+078	.1981637123+079
51	.1635075835-082	.4218604609-082	51	-.9660311201+080	.1904636682+081
60	.1518169973-100	.4760856453-101	60	-.5061769536+099	.1048423559+099
61	.1273076089-102	.2636334612-103	61	-.6189286780+101	.6494915169+100
70	.8092135624-122	-.6718566558-122	70	-.4710762144+120	-.4778816824+120
71	.5189203260-124	-.5264483326-124	71	-.5908895457+122	-.7328748677+122
80	-.2006913545-144	-.1679980937-143	80	.7920522325+141	-.3566233694+142
81	-.2262057460-146	-.1018386604-145	81	.1831029763+144	-.5558301251+144
90	-.7089964613-166	-.3469931664-166	90	.6529423257+164	-.2424124967+164
91	-.4064040207-168	-.1508738800-168	91	.1213531481+167	-.3173927674+166
99	-.2213546577-186	.1047294296-186	99	.1749777194+185	.1052629072+185
100	-.1049185123-188	.6311890917-189	100	.3240087447+187	.2418705463+187

REAL X = .1000000000+001		IMAGINARY X = -.5000000000+000		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.8717112232+000	0	-.3120124954+000	0	.1543066165+000	0	.1543066165+000
1	.3236338366+000	1	-.8835240885+000	1	-.1223630451+000	1	-.1223630451+000
2	.5184563880-001	2	-.9027982649+000	2	-.5961732083-001	2	-.5961732083-001
3	.2983360257-002	3	.1826391394+001	3	-.1241496060-001	3	-.1241496060-001
4	-.3769316699-003	4	.3957582195+002	4	.1553049825-002	4	.1553049825-002
5	-.1062889102-003	5	.4613178622+003	5	-.1239521497-003	5	-.1239521497-003
6	-.1302128154-004	6	.4916586049+004	6	.5400297347-005	6	.5400297347-005
7	-.1050871577-005	7	.4918309947+005	7	.7839328879-007	7	.7839328879-007
8	-.5953711407-007	8	.4128036038+006	8	.3578735104-007	8	.3578735104-007
9	-.2187161622-008	9	.1214534149+007	9	.3462309728-008	9	.3462309728-008
10	-.2129651163-010	10	.6919333627+008	10	.2173284955-009	10	.2173284955-009
11	.3820864196-011	11	-.2701481683+010	11	.9918298501-011	11	.9918298501-011
12	.3520666309-012	12	-.7248106168+011	12	.3201475274-012	12	.3201475274-012
13	.1899314715-013	13	-.1653412542+013	13	.5318356880-014	13	.5318356880-014
14	.7470932690-015	14	-.3224670377+014	14	-.1450296072-015	14	-.1450296072-015
15	.2176013444-016	15	-.4603380551+015	15	-.1676184691-016	15	-.1676184691-016
16	.4049666414-018	16	.3464064760+015	16	-.8385290408-018	16	-.8385290408-018
17	-.4317654638-021	17	.3943143527+018	17	-.2976010515-019	17	-.2976010515-019
18	-.4146022943-021	18	.2173504414+020	18	-.7986198393-021	18	-.7986198393-021
19	-.208882497-022	19	.8773895424+021	19	-.1515604942-022	19	-.1515604942-022
20	-.6946738771-024	20	.2963682323+023	20	-.1145723647-024	20	-.1145723647-024
30	.3701768349-041	30	.2086276108+039	30	-.1541509148-040	30	-.1541509148-040
31	-.6366238416-043	31	.3218041150+041	31	.2740977483-042	31	.2740977483-042
40	.1272636637-058	40	-.8168477532+057	40	.4072063406-059	40	.4072063406-059
41	.1778752082-060	41	-.4882136873+059	41	-.2763200775-061	41	-.2763200775-061
50	-.3593139869-078	50	-.7298285667+075	50	.8881907607-078	50	.8881907607-078
51	.8241362792-081	51	.4313087004+078	51	.1036809668-079	51	.1036809668-079
60	-.8554675488-098	60	.7745134928+096	60	-.4233530936-098	60	-.4233530936-098
61	-.8676389126-100	61	.7481762404+098	61	.3618142704-102	61	.3618142704-102
70	.9337682252-119	70	-.2468512958+116	70	-.1575978973-118	70	-.1575978973-118
71	.1016779524-121	71	.1669942742+119	71	.1428632175-120	71	.1428632175-120
80	.7010701495-140	80	-.6423934569+138	80	.4903780826-140	80	.4903780826-140
81	.5805464892-142	81	-.8885368840+140	81	.8577406136-143	81	.8577406136-143
90	-.7340556505-154	90	.9404062929+159	90	.8967786921-162	90	.8967786921-162
91	-.1560848631-154	91	-.1649748940+162	91	.6906245642-164	91	.6906245642-164
99	-.3178058882-182	99	.3466641190+180	99	-.882588856-182	99	-.882588856-182
100	-.3777447911-184	100	.8150290034+182	100	-.3601744475-184	100	-.3601744475-184

REAL X = .100000000+001		IMAGINARY X = -.100000000+001		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9667107481+000	.3317468333+000	0	.7758384032+000	-.9113138654+000
1	.3950657977+000	-.2620850747+000	1	-.4722618952+000	-.7486118459+000
2	.1901556057-001	-.1322757489+000	2	.3369410857+000	-.9199967462+000
3	-.1683752413-001	-.2106539599-001	3	.3614606475+001	-.7090273054+000
4	-.4218009054-002	-.3844715465-003	4	.1479577715+002	.1108952384+002
5	-.4133946573-003	.3542332861-003	5	.1306353340+002	.1171928817+003
6	-.3944634358-005	.5908400489-004	6	-.5875071930+003	.7053207594+003
7	.3708502141-005	.4172622399-005	7	-.8416445224+004	.6485953002+003
8	.4637324268-006	.2442915699-007	8	-.6740029674+005	-.5896419519+005
9	.2557565178-007	-.2324893692-007	9	-.6329041795+005	-.1074746777+007
10	.1011658605-009	-.2325365821-008	10	.9676235705+007	-.1075238915+008
11	-.9706912297-010	-.1051626675-009	11	.2145638514+009	-.1022486444+008
12	-.8090099586-011	-.2997691419-012	12	.2575393997+010	.2360650740+010
13	-.3099950811-012	.2893208825-012	13	.2469726864+010	.6171078407+011
14	-.6669220491-015	.2066746151-013	14	-.8023296663+012	.8640762469+012
15	.6465194864-015	.6869396351-015	15	-.2416535547+014	.8336146345+012
16	.4040974388-016	.1154876637-017	16	-.3866817069+015	-.3625060992+015
17	.1185823079-017	-.1123396611-017	17	-.3747328325+015	-.1236243175+017
18	.1600694179-020	-.6241345333-019	18	.2101714128+018	-.2225378742+018
19	-.1581349869-020	-.1639433168-020	19	.8005496544+019	-.2164171036+018
20	-.7806984744-022	-.1815903988-023	20	.1601171447+021	.1521095870+021
30	-.2918421562-039	.1838451451-037	30	-.4381730556+036	.4532839395+036
31	.2873299288-039	.2963097073-039	31	-.2718970345+038	.4457726822+036
40	.1622561948-054	.1954988406-056	40	-.3851947912+053	-.3755644142+053
41	.1977900170-056	-.1931900396-056	41	-.3804004479+053	-.3081087289+055
50	.1183466180-074	-.1218931892-072	50	.4019918326+071	-.4101960292+071
51	-.1172159954-074	.1194702180-074	51	.4101557160+073	-.4061080275+071
60	-.1272568351-091	-.1034631200-093	60	.3274222328+090	.3219650682+090
61	-.1042886527-093	.1026332423-093	61	.3247014243+090	.3528797835+092
70	-.1790136080-113	.2559852881-111	70	-.1375239195+110	.1395170544+110
71	.177762316-113	.1802453853-113	71	-.1953140321+112	.1385229117+110
80	.1253247975-131	.7688734318-134	80	-.2493522194+130	-.2462352759+130
81	.7735239703-134	-.7642042910-134	81	-.2477970565+130	-.3989481322+132
90	.9724830108-155	-.1779626200-152	90	.1543534414+151	-.1560877678+151
91	-.9672163751-155	-.977303061-155	91	.2803493923+153	-.1552222377+151
99	-.8402586018-172	-.8486612575-172	99	.2975273586+170	-.1510304130+168
100	-.8402588374-174	-.4139239571-176	100	.2975274489+172	.2945521495+172

REAL X = .1000000000+001		IMAGINARY X = -.3000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2470968822+001	.2000225544+001	0	.1984967225+001	-.2474849405+001
1	.1631996444+001	-.1533536204+001	1	-.1530017278+001	-.1652220317+001
2	-.6011873053+000	-.9914896055+000	2	-.9569741234+000	.6021677599+000
3	-.4453556886+000	.1360104436+000	3	.1482785768+000	.5178430119+000
4	.3816391611-002	.1514499699+000	4	-.2670119782-001	.7170735962-001
5	.3987552231-001	.1059878664-001	5	-.3659195258+000	-.5253996223+000
6	.5070687016-002	-.8202080986-002	6	.1358008473+001	-.1957181379+001
7	-.1295513341-002	-.1485812559-002	7	.9374337920+001	.34J7296875+001
8	-.3278005135-003	.1435521143-003	8	-.2629337529+001	.4915264733+002
9	.6136684778-005	.5806653405-004	9	-.2645227131+003	.6674258219+002
10	.8469570534-005	.1757203593-005	10	-.8803965359+003	-.1430121206+004
11	.5790307089-006	-.1020112143-005	11	.7425453585+004	-.8616495290+004
12	-.9902611553-007	-.1081496303-006	12	.7741275729+005	.3284781177+005
13	-.1547377086-007	.7042200981-008	13	-.6025214867+005	.6713317044+006
14	.2051062720-009	.1826028960-008	14	-.5677880364+007	.1291705386+007
15	.1821270967-009	.3770756843-010	15	-.2764343776+008	-.4632294525+008
16	.8807341317-011	-.1535349825-010	16	.3507866142+009	-.4019768069+009
17	-.1063237638-011	-.1181433630-011	17	.5164809652+010	.2192586963+010
18	-.1236199311-012	.5448535031-013	18	-.5296115939+010	.6230653253+011
19	.1056504384-014	.1084819126-013	19	-.7163629497+012	.1695546965+012
20	.8164604592-015	.1836968970-015	20	-.4772309336+013	-.7782489727+013
30	.5753765827-027	.1625063165-027	30	-.4876378106+025	-.7124476241+025
31	.1680236148-028	-.2479554686-028	31	.1010756400+027	-.1328247061 027
40	.1531063078-040	.5411718535-041	40	-.1476720033+039	-.1889718694+039
41	.3792257992-042	-.4879636232-042	41	.3404903575+040	-.5122322221+040
50	.3465692331-055	.1500817579-055	50	-.5529649943+053	-.6159178931+053
51	.7725566472-057	-.8635039536-057	51	.1310158866+055	-.2298615150+055
60	.1086103202-070	.5652368208-071	60	-.1533124756+069	-.1481789833+069
61	.2259608179-072	-.2189232118-072	61	.3528836072+070	-.7360829035+070
70	.6522276586-087	.4020061595-087	70	-.2244440670+085	-.1875482738+085
71	.1298657510-088	-.1087142716-088	71	.4774289669+086	-.1214190986+087
80	.9468537463-104	.68415222534-104	80	-.1364795682+102	-.9802876726+101
81	.1839225812-105	-.1322966902-105	81	.2540175034+103	-.8172184875+103
90	.3955430334-121	.3328947006-121	90	-.2881275514+119	-.1762856982+119
91	.7616101538-123	-.4665462102-123	91	.4361767014+120	-.1883994119+121
99	-.2114823776-137	.4352421958-137	99	-.2346623141+135	-.2295355033+135
100	.5443715711-139	.5319994602-139	100	-.18375355415+137	-.9446320982+136

REAL X = .1000000000+001		IMAGINARY X = -.1000000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.680911557+003	.8586404396+003	0	.8586404355+003	-.680911557+003
1	.7803682292+003	-.6049931815+003	1	-.6049931793+003	-.7803682336+003
2	-.4780313563+003	-.6448179907+003	2	.6448179853+003	.4780313589+003
3	-.4848163207+003	.3364223125+003	3	.3364223093+003	.4848163280+003
4	.2112662462+003	.3321230772+003	4	.3321230666+003	-.2112662505+003
5	.2076907689+003	-.1185701357+003	5	-.1185701296+003	-.2076907860+003
6	-.5951066814+002	-.1188387892+003	6	-.1188387593+003	.5951067723+002
7	-.6238974003+002	.2667616426+002	7	.2667615031+002	.6238979692+002
8	.1062679943+002	.3014256608+002	8	.3014244952+002	-.1062682079+002
9	.1344339703+002	-.3715970930+001	9	-.3715940642+001	-.1344365370+002
10	-.1107403189+001	-.5552051349+001	10	-.5551446246+001	.1107433243+001
11	-.2129780034+001	.2590625346+000	11	.2590955705+000	.2131301092+001
12	.3245938942-001	.7610516509+000	12	.7569902751+000	-.3206783389-001
13	.2540233213+000	.9661610266-002	13	.7654086412-002	-.2655003698+000
14	.9619768037-002	-.7939659908-001	14	-.4515055944-001	-.1844609337-001
15	-.2329077670-001	-.4837537421-002	15	.3233440530-001	.1304485792+000
16	-.1920535139-002	.6425268003-002	16	.3452716375+000	.1577289805+000
17	.1669825212-002	.6618666106-003	17	-.6604980449+000	-.1207028619+001
18	.2055902750-003	-.4093852747-003	18	.4299158618+001	-.2864860836+001
19	-.9478172896-004	-.5868694134-004	19	.1273047209+002	.1590691810+002
20	-.1557621864-004	.2073512606-004	20	-.6080618484+002	.5816440459+002
30	.1416632738-011	.4997725807-014	30	-.1233289634+009	-.1087565199+010
31	.2173787040-013	-.2196849188-012	31	.6675199431+010	-.1405093034+010
40	-.1947222342-020	-.2805079655-020	40	.3063470534+018	.1679102280+018
41	-.3559401027-021	.1990340554-021	41	-.1125545441+019	.2627655369+019
50	-.2699328568-030	.7016497767-030	50	-.1145899134+028	.5830902269+027
51	.6497010553-031	.3260514131-031	51	-.7023889486+028	-.1099621446+029
60	.2327337503-040	-.5260182535-041	60	.4069540531+037	-.3376324173+038
61	-.2393803454-042	-.1922297944-041	61	.4121499755+039	.8922270731+037
70	-.1077280239-051	-.1030505403-051	70	.3567044170+049	.3040852014+049
71	-.7915546902-053	.6787954077-053	71	-.3771469254+050	.5427628761+050
80	-.4128529695-064	.2260638562-063	80	-.2563799252+061	.7422995947+060
81	.1356876501-064	.3895426804-065	81	-.1595011636+062	-.3985045020+062
90	.9550447634-076	-.4039140231-076	90	.1553498128+073	-.5035622780+073
91	-.1683573673-077	-.5422738891-077	91	.9329820632+074	.1893007475+074
99	.1483174498-087	-.2766993090-087	99	.1314469535+085	-.8852954192+084
100	-.1300102237-088	-.8728119757-089	100	.2007104976+086	.24222567514+086

REAL X = .1000000000+001		IMAGINARY X = -.1000000000+003	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	.7374340646+041	0	.1123611949+042
1	.112450689+042	1	-.7299481113+041
2	-.7152041090+041	2	-.1090460728+042
3	-.1058290670+042	3	.6936463057+041
4	.6659129933+041	4	.1016873292+042
5	.9673804868+041	5	-.6328050345+041
6	-.5952473875+041	6	-.9111680943+041
7	-.8497142228+041	7	.5542462114+041
8	.5108443248+041	8	.7845549915+041
9	.7172215589+041	9	-.4660777496+041
10	-.4209358222+041	10	-.6491819803+041
11	-.5817908513+041	11	.3763269199+041
12	.3330513001+041	12	.5162489298+041
13	.4535740688+041	13	-.2917819270+041
14	-.2530535296+041	14	-.3945839089+041
15	-.3398899589+041	15	.2172595623+041
16	.1846562462+041	16	.2899019945+041
17	.2448411712+041	17	-.1553725132+041
18	-.1294244457+041	18	-.2047599026+041
19	-.1695664051+041	19	.1067327206+041
20	.8714160392+040	20	.1390518330+041
30	-.6637011559+039	30	-.1120129243+040
31	-.8257792265+039	31	.4859658009+039
40	.1901050398+038	40	.3469931356+038
41	-.2328404450+038	41	-.1264098075+038
50	-.2104978018+036	50	-.4253851015+036
51	-.2606325883+036	51	.1274920071+036
60	.9290534155+033	60	.2133496968+034
61	.1197764349+034	61	-.5141297161+033
70	-.1685723426+031	70	.4538708471+031
71	-.2343445676+031	71	.8548921910+030
80	.1292412883+028	80	.4251823240+028
81	.2026653378+028	81	-.6020624377+027
90	.4261421535+024	90	-.1821219887+025
91	-.8043968816+024	91	.1824944230+024
99	-.8946452641+021	99	.1514074355+021
100	.5993675054+020	100	.3701007335+021

IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND
0	-.7374340646+041	0	.1123611949+042
1	-.1112450689+042	1	-.7299481113+041
2	.7152041090+041	2	-.1090460728+042
3	-.1058290670+042	3	.6936463057+041
4	.6659129933+041	4	.1016873292+042
5	-.9673804868+041	5	-.6328050345+041
6	.5952473875+041	6	-.9111680943+041
7	-.8497142228+041	7	.5542462114+041
8	.5108443248+041	8	.7845549915+041
9	.7172215589+041	9	-.4660777496+041
10	-.4209358222+041	10	-.6491819803+041
11	-.5817908513+041	11	.3763269199+041
12	.3330513001+041	12	.5162489298+041
13	.4535740688+041	13	-.2917819270+041
14	-.2530535296+041	14	-.3945839089+041
15	-.3398899589+041	15	.2172595623+041
16	.1846562462+041	16	.2899019945+041
17	.2448411712+041	17	-.1553725132+041
18	-.1294244457+041	18	-.2047599026+041
19	-.1695664051+041	19	.1067327206+041
20	.8714160392+040	20	.1390518330+041
30	-.6637011559+039	30	-.1120129243+040
31	-.8257792265+039	31	.4859658009+039
40	.1901050398+038	40	.3469931356+038
41	-.2328404450+038	41	-.1264098075+038
50	-.2104978018+036	50	-.4253851015+036
51	-.2606325883+036	51	.1274920071+036
60	.9290534155+033	60	.2133496968+034
61	.1197764349+034	61	-.5141297161+033
70	-.1685723426+031	70	.4538708471+031
71	-.2343445676+031	71	.8548921910+030
80	.1292412883+028	80	.4251823240+028
81	.2026653378+028	81	-.6020624377+027
90	.4261421535+024	90	-.1821219887+025
91	-.8043968816+024	91	.1824944230+024
99	-.8946452641+021	99	.1514074355+021
100	.5993675054+020	100	.3701007335+021

REAL X = .1300000000+001		IMAGINARY X = -.1000000000-002	
N	FIRST KIND	IMAGINARY BESSEL	REAL BESSEL
0	.7411986945+000	.3643844779-003	-.2057677407+000
1	.3643845482+000	-.1806071691-003	-.8994809460+000
2	.9968854757-001	-.1343339128-003	-.1869954200+001
3	.1903311298-001	-.4112506379-004	-.6292636231+001
4	.279755080-002	-.8273274782-005	-.3201337916+002
5	.3346086394-003	-.1253206539-005	-.2153376969+003
6	.3375527314-004	-.1528495038-006	-.1790067486+004
7	.2945068038-005	-.1563180162-007	-.1768525409+005
8	.2263997788-006	-.1377689503-008	-.2022694858+006
9	.1555656118-007	-.1067345066-009	-.2627361778+007
10	.9664115241-009	-.7379292061-011	-.3819738576+008
11	.5478436044-010	-.4607147892-012	-.6144029825+009
12	.2855934117-011	-.2622539474-013	-.1083192613+011
13	.1378049575-012	-.1371905506-014	-.2076901521+012
14	.6189070010-014	-.6639408504-016	-.4302694658+013
15	.2599695969-015	-.2989524117-017	-.9577459318+014
16	.1025616214-016	-.1258545380-018	-.2279530093+016
17	.3814379274-018	-.4974897905-020	-.5776860560+017
18	.1341746912-019	-.1853443700-021	-.1553011643+019
19	.4477178594-021	-.6529820792-023	-.4414281013+020
20	.1420940549-022	-.2181933798-024	-.1322714871+022
30	.1450166874-038	-.3344137229-040	-.8698918833+037
31	.2993590637-040	-.7133921365-042	-.4079805432+039
40	.5530240522-056	-.1701282124-057	-.1716464449+055
41	.8663693260-058	-.2731974679-059	-.1069169060+057
50	.1792831163-074	-.6896638852-076	-.4243112987+073
51	.2263083353-076	-.8879999177-078	-.3295913656+075
60	.8071569213-094	-.3727131362-095	-.7860911530+092
61	.8531561601-096	-.4005321779-097	-.7315567133+094
70	.6998793954-114	-.3771588908-115	-.7773391760+112
71	.6362794805-116	-.3477951275-117	-.8430053703+114
80	.1476554939-134	-.9096795500-136	-.3223826765+133
81	.1177638692-136	-.7346172193-138	-.3992127896+135
90	.9033413516-156	-.6263266223-157	-.4682360173+154
91	.6417157063-158	-.4498907238-159	-.6518590557+156
99	.2840750214-175	-.2167347067-176	-.13528685982+174
100	.1837269396-177	-.1415959665-178	-.2070742949+176

IMAGINARY BESSEL	
-.8994816052-003	
-.1178048983-002	
-.3415802156-002	
-.1749204945-001	
-.1168362590+000	
-.9618592305+000	
-.9423573280+001	
-.1070435596+003	
-.1382663309+004	
-.2000858973+005	
-.3205887676+006	
-.5633371767+007	
-.1077083914+009	
-.2225916120+010	
-.4944095454+011	
-.1174520211+013	
-.2971514314+014	
-.7976440212+015	
-.2264169402+017	
-.6776202464+018	
-.2132463330+020	
-.2072831670+036	
-.1003592080+038	
-.5412374409+053	
-.3453721955+055	
-.1664901901+072	
-.1318643803+074	
-.3690429611+091	
-.3490821934+093	
-.4248963949+111	
-.4672952001+113	
-.2011030494+132	
-.2521132216+134	
-.3282673734+153	
-.4620401709+155	
-.1042649003+173	
-.1611916371+175	

REAL X = .1300000000+001		IMAGINARY X = -.1000000000-001	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	N	REAL BESSEL
0	.7412076346+000	0	-.2057094298+000
1	.3643949937+000	1	-.8993830762+000
2	.9968619294-001	2	-.1869458083+001
3	.1903049717-001	3	-.6289404543+001
4	.2796684792-002	4	-.3198731982+002
5	.3344266213-003	5	-.2150859761+003
6	.3372705023-004	6	-.1787237563+004
7	.2941573894-005	7	-.1764898688+005
8	.2260384965-006	8	-.2017479689+006
9	.1552445753-007	9	-.2619048290+007
10	.9639082470-009	10	-.3805192033+008
11	.5461040063-010	11	-.6116317075+009
12	.2845027543-011	12	-.1077483140+011
13	.1371819522-012	13	-.2064254055+012
14	.6156383527-014	14	-.4272720661+013
15	.2583837613-015	15	-.9501786203+014
16	.1018460342-016	16	-.2259255848+016
17	.3784198130-018	17	-.5719410190+017
18	.1329797325-019	18	-.1535845105+019
19	.4432596340-021	19	-.4360336854+020
20	.1405214380-022	20	-.1304931183+022
30	.1413611796-038	30	-.8447942335+037
31	.2912495663-040	31	-.3954529476+039
40	.5279463583-056	40	-.1630727959+055
41	.8250803943-058	41	-.1013191235+057
50	.1665609395-074	50	-.3918144222+073
51	.2095007854-076	51	-.3033716164+075
60	.7247370855-094	60	-.7006886854+092
61	.7631884433-096	61	-.6495214319+094
70	.6029890219-114	70	-.6639099802+112
71	.5456976722-116	71	-.7166161485+114
80	.1210881851-134	80	-.2617076286+133
81	.9605428651-137	81	-.3222830812+135
90	.6989281255-156	90	-.3580760632+154
91	.4933641384-158	91	-.4952669519+156
99	.2066185610-175	99	-.9720827703+173
100	.1327678402-177	100	-.1476802019+176

IMAGINARY BESSEL	
0	-.8994489805-002
1	-.1177945207-001
2	-.3415168816-001
3	-.1748715610+000
4	-.1167901163+001
5	-.9613485569+001
6	-.9417101429+002
7	-.1069512616+004
8	-.1381201461+005
9	-.1998314267+006
10	-.3201050132+007
11	-.5623060729+008
12	-.1074894940+010
13	-.2220741453+011
14	-.4931059876+012
15	-.1171034375+014
16	-.2961653109+015
17	-.7947017701+016
18	-.2254935756+018
19	-.6745797538+019
20	-.2121981789+021
30	-.2051568234+037
31	-.9926548232+038
40	-.5317574800+054
41	-.3390362004+056
50	-.1620513977+073
51	-.1292146082+075
60	-.3551437758+092
61	-.3355155960+094
70	-.4034467350+112
71	-.4430601894+114
80	-.1880164561+133
81	-.2353152069+135
90	-.3015504027+154
91	-.4236391911+156
99	-.9409952737+173
100	-.1451745519+176

REAL X = .1300000000+001		IMAGINARY X = -.1000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.7421020230+000	0	.3647362616-001	0	-.1999041293+000	0	-.8962069602-001				
1	.3654461455+000	1	-.1807603937-001	1	-.8896980809+000	1	-.1167661660+000				
2	.9945055315-001	2	-.1345274961-001	2	-.1820562145+001	2	-.3352601697+000				
3	.1876866051-001	3	-.4110781735-002	3	-.5972668893+001	3	-.1700570408+001				
4	.2709657348-002	4	-.8237512345-003	4	-.2945054823+002	4	-.1122712744+002				
5	.3162613006-003	5	-.1240405187-004	5	-.1907726250+003	5	-.9115994981+002				
6	.3091981064-004	6	-.1500875760-004	6	-.1516298036+004	6	-.8790300317+003				
7	.2595278660-005	7	-.1519628100-005	7	-.1421081429+005	7	-.9806954745+004				
8	.1904105499-006	8	-.1323188481-006	8	-.1528369059+006	8	-.1241514435+006				
9	.1237733652-007	9	-.1010637626-007	9	-.1848517498+007	9	-.1756998976+007				
10	.7202306127-009	10	-.6873601706-009	10	-.2474133024+008	10	-.2747000028+008				
11	.3781176772-010	11	-.4212278498-010	11	-.3615346090+009	11	-.4699417076+009				
12	.1801305063-011	12	-.2348185380-011	12	-.5698210953+010	12	-.8727110386+010				
13	.7016052593-013	13	-.1200163065-012	13	-.9574086540+011	13	-.1747515965+012				
14	.3094047019-014	14	-.5661954226-014	14	-.1693522416+013	14	-.3751438403+013				
15	.1116092750-015	15	-.2478158435-015	15	-.3106109660+014	15	-.8590786182+014				
16	.3648802826-017	16	-.1011620892-016	16	-.5779816667+015	16	-.2089411050+016				
17	.1066842481-018	17	-.3866937509-018	17	-.1049856069+017	17	-.5376295894+017				
18	.2703890186-020	18	-.1389155095-019	18	-.1697244625+018	18	-.1458475056+019				
19	.5449096774-022	19	-.4704884096-021	19	-.1617377284+019	19	-.4158190216+020				
20	.5785558378-024	20	-.1506528367-022	20	.4732760101+020	20	-.1242371061+022				
30	-.1057260261-038	30	-.1180701598-038	30	.5734268684+037	30	-.5492522475+037				
31	-.2370178053-040	31	-.2269330042-040	31	.2870781443+039	31	-.23555032985+039				
40	-.6209823165-056	40	-.4496520340-057	40	.1521577775+055	40	.6708473126+052				
41	-.9782732435-058	41	.4426842938-060	41	.9419129959+056	41	.7667218519+055				
50	-.1596078159-074	50	.1332775381-074	50	.2616365720+073	50	.2549527098+073				
51	-.1895320633-076	51	.1837433535-076	51	.1668916466+075	51	.2124269255+075				
60	-.1031305242-094	60	.9589586436-094	60	.1997768215+091	60	.6570407194+092				
61	-.3102172691-097	61	.1022030333-095	61	-.2828831372+093	61	.6093062354+094				
70	.5287988348-114	70	.6803177902-114	70	-.4245578747+112	70	.4673281883+112				
71	.5283509887-116	71	.5815322735-116	71	-.4964976872+114	71	.4686296510+114				
80	.1854198481-134	80	.2655185033-135	80	-.2538109202+133	80	.1664327645+132				
81	.1495192433-136	81	.9800038129-138	81	-.3140416006+135	81	-.3549534269+133				
90	.9572256278-156	90	-.6914599128-156	90	-.2739463386+154	90	-.2318353351+154				
91	.6422393498-158	91	-.5435403487-158	91	-.3544691252+156	91	-.3500392989+156				
99	.9594628111-176	99	-.3692619982-175	99	-.1783357510+173	99	-.9944068502+173				
100	.4368381124-178	100	-.2436099239-177	100	-.1549641384+175	100	-.1534064303+176				

REAL X = .1300000000+001		IMAGINARY X = -.5000000000+000		SECOND KIND	
N	FIRST BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7640151492+000	.1866270698+000	0	-.727030349-001	-.4142044606+000
1	.3911488507+000	-.9223396295-001	1	-.7059915225+000	-.4829291062+000
2	.9362993430+001	-.6961116299-001	2	-.9731422112+000	-.1102502136+001
3	.1226482482-001	-.2034225028-001	3	-.1133786329+001	-.4465070592+001
4	.6008810910+003	-.3681389533-002	4	.3710405858+001	-.2188739195+002
5	-.1016467064+003	-.4661479781-003	5	.7428069990+002	-.1189295993+003
6	-.2859378307+004	-.4282900955-004	6	.8809941325+003	-.6441690101+003
7	-.3942206901+005	-.2754007125-005	7	.9758657138+004	-.2540861333+004
8	-.3645577097+006	-.9351143204-007	8	.1070315183+006	.1283135973+005
9	-.2886434318+007	.3830228143-008	9	.1153298082+007	.6176649629+006
10	-.1698189186+008	.9317283959-009	10	.1155206409+008	.1349884719+008
11	-.7571503139+010	.8997740176-010	11	.8334848242+008	.2518643975+009
12	-.2130174357+011	.6210496669-011	12	-.1429030675+009	.4392043953+010
13	.1303399148+013	.3390736414-012	13	-.3078159544+011	.7240542433+011
14	.6462470917+014	.1498977389-013	14	-.1060634019+013	.1091421799+013
15	.5141694398+015	.5244533942-015	15	-.2873804242+014	.1320976393+014
16	.2625115260+016	.1285399946-016	16	-.7014622787+015	.4370952093+014
17	.1234403069+017	.7268556288-019	17	-.1585473559+017	-.5012688708+016
18	.4438465643+019	-.1418151817-019	18	-.3259317424+018	-.2606288688+018
19	.1297993347+020	-.1043748436-020	19	-.5579858015+019	-.9565083097+019
20	.2841428466+022	.4898464871-022	20	-.4935431617+020	-.3057996517+021
30	.1072779291+039	.1151062280-037	30	-.3755487364+036	.9518585098+036
31	.9367596358+040	.2367228659-039	31	-.3031562546+038	.3298003142+038
40	-.4512212176+055	-.7494271738-055	40	.7995223172+053	-.6231640602+053
41	-.1158596935+056	-.9019521178-057	41	.5639689386+055	-.1711793814+055
50	.4968357087+073	.2696034223-073	50	-.1247236047+072	.1633863735+071
51	.7580624854+075	.9901582027-076	51	-.8865099506+073	-.2141710243+073
60	-.5070537728+092	.1724465003-093	60	.1076961247+091	.4565924412+090
61	-.5289310329+094	.2244112218-094	61	.7306990338+092	.7060683029+092
70	.7408450424+112	-.4695257558-112	70	-.3462192142+110	-.4661052383+110
71	.5093180073+114	-.6859578996-114	71	-.1576908613+112	-.5661830107+112
80	-.1686155006+132	.3280904509-132	80	.1304538286+130	.1201658839+131
81	-.3396355273+135	.3134695533-134	81	-.3579327411+132	.13504666305+133
90	-.2491196860+154	-.4494573215-153	90	.3613251626+151	-.8037809614+151
91	-.1405175508+155	-.3124879684-155	91	.8132023357+153	-.8062703586+153
99	.5715414663+173	.2572044199-172	99	-.7570635860+170	.1141111407+171
100	.1009549778+174	.1521358204-174	100	-.1594787948+173	.1133295565+173

REAL X = .1300000000+001		IMAGINARY X = -.1000000000+001	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	SECOND KIND REAL BESSEL
0	.8354153576+000	.4008080115+000	.2214761296+000
1	.4762091978+000	-.1964288618+000	-.4679022724+000
2	.7406510959+001	-.1545050255+000	-.1670234100+000
3	-.1005739868-001	-.3924292912-001	.1502611731+001
4	-.5969133429-002	-.4421534291-002	.9213770597+001
5	-.1111765819-002	.4064210934-004	.4014024399+002
6	-.1071916314-003	.9133286228-004	.8022135650+002
7	-.3054173758-005	.1513267302-004	-.1110383078+004
8	.6687750229-005	.1334244622-005	-.2153401294+005
9	.1165415757-005	.5542420426-007	-.2447428207+006
10	.9855846732-008	-.2174813976-008	-.1880533595+007
11	.4605466892-009	-.5541820197-009	-.1756576966+007
12	.1600278966-011	-.4729328644-010	.2973498779+009
13	-.1683779388-011	-.2332788942-011	.7519209410+010
14	-.1561730474-012	-.4609472824-013	.1209223455+012
15	-.8033536879-014	.3127370015-014	.1192840122+013
16	-.2210071509-015	.3673558799-015	-.4706281351+013
17	.2328400376-017	.1996502817-016	-.6024469625+015
18	.6228501855-018	.6377242058-018	-.1830921342+017
19	.3713802706-019	.5228766480-020	-.3636417315+018
20	.1304490843-020	-.7422296801-021	-.3869895270+019
30	.1085705444-035	-.1119393843-035	-.7410135139+033
31	.4610442760-038	-.4034173432-037	.1227066803+036
40	.2861943225-052	-.5347942595-052	.2020712997+050
41	-.1965214988-054	-.1182491094-053	.4479932583+052
50	.4273870938-070	-.1961227473-069	.1282861105+068
51	-.1365465674-071	-.2890130505-071	.1647756168+070
60	-.5650021123-089	-.9211504668-088	.3586600034+086
61	-.8088116325-090	-.9275433490-090	.3949341391+088
70	-.2599156688-107	-.7715958597-107	.4428426449+105
71	-.7850452546-109	-.5126175917-109	.4534356808+107
80	-.1011433885-126	-.1442847842-126	.2050839712+125
81	-.1591942426-128	-.5300759798-129	.1960518615+127
90	-.8532596651-147	-.6967388116-147	.3056741895+145
91	-.9868946429-149	-.2861374465-150	.2733698132+147
99	-.1357009979-165	-.2456188990-165	.1001184904+164
100	-.2099746418-167	-.9133322408-168	.1285141458+166

REAL X = -.1000000000+001		IMAGINARY X = -.1000000000+001	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	SECOND KIND REAL BESSEL
0	.7006912308+000	-.7006912308+000	.7006912308+000
1	-.6570988927+000	-.6570988927+000	-.6570988927+000
2	-.7738041219+000	-.7738041219+000	-.7738041219+000
3	-.1523140454+001	-.1523140454+001	-.1523140454+001
4	-.4686851020+000	-.4686851020+000	-.4686851020+000
5	.3031136338+002	.3031136338+002	.3031136338+002
6	.3257457038+003	.3257457038+003	.3257457038+003
7	.2403881956+004	.2403881956+004	.2403881956+004
8	.1090843718+005	.1090843718+005	.1090843718+005
9	-.4887293708+005	-.4887293708+005	-.4887293708+005
10	-.2188334139+007	-.2188334139+007	-.2188334139+007
11	-.3684061684+008	-.3684061684+008	-.3684061684+008
12	-.4223230836+009	-.4223230836+009	-.4223230836+009
13	-.2302101120+010	-.2302101120+010	-.2302101120+010
14	.4585537319+011	.4585537319+011	.4585537319+011
15	.1948582989+013	.1948582989+013	.1948582989+013
16	.4289315513+014	.4289315513+014	.4289315513+014
17	.6243744915+015	.6243744915+015	.6243744915+015
18	.2679558769+016	.2679558769+016	.2679558769+016
19	-.2045478391+018	-.2045478391+018	-.2045478391+018
20	-.9130041257+019	-.9130041257+019	-.9130041257+019
30	-.6368995146+034	-.6368995146+034	-.6368995146+034
31	-.2044310837+036	-.2044310837+036	-.2044310837+036
40	-.1224682622+051	-.1224682622+051	-.1224682622+051
41	-.4183279544+052	-.4183279544+052	-.4183279544+052
50	-.2720575255+068	-.2720575255+068	-.2720575255+068
51	-.84517462266+086	-.84517462266+086	-.84517462266+086
60	-.7936658909+087	-.7936658909+087	-.7936658909+087
70	-.2894112265+105	-.2894112265+105	-.2894112265+105
71	.3497244478+106	.3497244478+106	.3497244478+106
80	-.6431861828+124	-.6431861828+124	-.6431861828+124
81	.7271939524+126	.7271939524+126	.7271939524+126
90	-.8934697036+143	-.8934697036+143	-.8934697036+143
91	.1978790442+147	.1978790442+147	.1978790442+147
99	-.4357202957+163	-.4357202957+163	-.4357202957+163
100	.3216965139+165	.3216965139+165	.3216965139+165

REAL X = .1300000000+001		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND	N	REAL BESSEL	N	IMAGINARY BESSEL	N	IMAGINARY BESSEL
0	.1931741907+001	0	.2381422080+001	0	.2396504548+001	0	.2396504548+001	0	.2396504548+001
1	.1943793535+001	1	-.1100611393+001	1	-.1096092492+001	1	-.1096092492+001	1	-.1096092492+001
2	-.2997842637+000	2	-.1130411858+001	2	-.1159892661+001	2	-.1159892661+001	2	-.1159892661+001
3	-.4985370128+000	3	.1065608702-001	3	-.2982577260-001	3	.1065608702-001	3	.1065608702-001
4	-.6601045965-001	4	.5677888382-001	4	.1551506777+000	4	.5677888382-001	4	.5677888382-001
5	.3442188881-001	5	-.4616780783+000	5	.3291094740-001	5	-.4616780783+000	5	-.4616780783+000
6	.1046057620-001	6	-.1021332564+000	6	-.4865469225-002	6	-.1021332564+000	6	-.1021332564+000
7	-.1340461954-003	7	.7145613353+001	7	-.2439848989-002	7	.7145613353+001	7	.7145613353+001
8	-.4344486360-003	8	.2641182491+002	8	-.1494170309-003	8	.2641182491+002	8	.2641182491+002
9	-.5127151095-004	9	-.775527730+002	9	.582772422-004	9	-.775527730+002	9	-.775527730+002
10	.5240347782-005	10	-.1183147803+004	10	.1068771973-004	10	-.1183147803+004	10	-.1183147803+004
11	.1667689753-005	11	-.2848866468+004	11	-.1003005547-006	11	-.2848866468+004	11	-.2848866468+004
12	.7159439544-007	12	.3967043882+005	12	-.2039399034-006	12	.3967043882+005	12	.3967043882+005
13	-.1920419589-007	13	.3935892160+006	13	-.1742322467-007	13	.3935892160+006	13	.3935892160+006
14	-.2631446681-008	14	-.2381970981+005	14	.1218195873-008	14	-.2381970981+005	14	-.2381970981+005
15	.9754282033-011	15	-.2956389303+008	15	.3034981152-009	15	-.2956389303+008	15	-.2956389303+008
16	.2787070828-010	16	-.2179282023+009	16	.1081462971-010	16	-.2179282023+009	16	-.2179282023+009
17	.1939361034-011	17	.1142606057+010	17	-.1987569428-011	17	.1142606057+010	17	.1142606057+010
18	-.9374691607-013	18	.3348494887+011	18	-.2254342369-012	18	.3348494887+011	18	.3348494887+011
19	-.2037379049-013	19	.1585647737+012	19	-.2036754648-015	19	.1585647737+012	19	.1585647737+012
20	-.6516946387-015	20	-.3075647732+013	20	.1481025144-014	20	-.3075647732+013	20	-.3075647732+013
30	-.1572429252-026	30	.5397119519+024	30	.3803715144-027	30	.5397119519+024	30	.5397119519+024
31	-.1415193740-028	31	-.4819627966+026	31	.8260589284-028	31	-.4819627966+026	31	-.4819627966+026
40	-.4716274582-040	40	.5484834498+038	40	-.3934633664-040	40	.5484834498+038	40	.5484834498+038
41	-.2157412318-041	41	-.8596927743+038	41	.1089660966-041	41	-.8596927743+038	41	-.8596927743+038
50	.1254049187-055	50	.1348602835+053	50	-.1991796737-054	50	.1348602835+053	50	.1348602835+053
51	-.5641327778-056	51	.3614403538+054	51	-.2873169718-056	51	.3614403538+054	51	.3614403538+054
60	.7625035494-070	60	.4358090741+067	60	-.4850688790-070	60	.4358090741+067	60	.4358090741+067
61	-.3782187350-072	61	.1001994800+070	61	-.2371120066-071	61	.1001994800+070	61	.1001994800+070
70	.7344508805-086	70	-.1942209500+084	70	.2903531990-086	70	-.1942209500+084	70	-.1942209500+084
71	.1275885376-087	71	.4349145541+085	71	-.1276878041-087	71	.4349145541+085	71	.4349145541+085
80	.4162928839-103	80	-.1114838946+101	80	.1629134331-102	80	-.1114838946+101	80	-.1114838946+101
81	.3329668656-104	81	-.2991612028+102	81	.5320166137-105	81	-.2991612028+102	81	-.2991612028+102
90	-.6651802135-120	90	-.7313967947+119	90	.7982849335-120	90	-.7313967947+119	90	-.7313967947+119
91	.8363324478-122	91	-.8935412372+119	91	.1656996629-121	91	-.8935412372+119	91	-.8935412372+119
99	-.4373073940-136	99	.1166885910+134	99	-.1238495754-135	99	.1166885910+134	99	.1166885910+134
100	-.2130983231-137	100	.3279312323+135	100	-.1478858353-138	100	.3279312323+135	100	.3279312323+135

REAL X = .1300000000+001		IMAGINARY X = -.1000000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4253685405+003	.1005891163+004	0	.1005891158+004	-.4253685411+003
1	.9124116417+003	-.3706793493+003	1	-.3706793486+003	-.9124116417+003
2	-.2810201693+003	-.7509329598+003	2	-.7509329538+003	.2810201700+003
3	-.5611478263+003	.1845049693+003	3	.1845049687+003	.5611478342+003
4	.1037973051+003	.3811684537+003	4	.3811684423+003	-.1037973054+003
5	.2357398967+003	-.4878436386+003	5	-.4878436431+002	-.2357399146+003
6	-.1787577346+002	-.1330243665+003	6	-.1330243357+002	.1787577078+002
7	-.6865299455+002	.3824561086+001	7	.3824570076+001	.6865305142+002
8	-.9305748166+000	.3248969995+002	8	.3248958701+002	.9306016649+000
9	.1413618174+002	.1680647392+001	9	.1680568974+001	-.1413642158+002
10	.1224022397+001	-.5669102837+001	10	-.5668560823+001	-.1224254019+001
11	-.2100313832+001	-.6748631857+000	11	-.6741609355+000	.2101610804+001
12	-.3151901704+000	.7202328343+000	12	.7169638434+000	.3173914744+000
13	.2289214718+000	.1301687665+000	13	.1230099502+000	-.2375515672+000
14	.4859145561+001	-.6748702738+001	14	-.4377501066+001	-.7277915724+001
15	-.1844713004+001	-.1661520970+001	15	.6831306780+001	.8573204398+001
16	-.5250953421+002	.4666658981+002	16	-.1905048300+000	.3150060467+000
17	.1087867913+002	.1543767491+002	17	-.1170925445+001	-.5710583741+000
18	.4243172554+003	-.2316585845+003	18	.1632075517+001	-.4600649293+001
19	-.4427133274+004	-.1094612012+003	19	.1868241203+002	.4333244532+001
20	-.2658579791+004	.7295297292+005	20	-.8936304819+001	.7841160602+002
30	.9228277880+012	.1258979941+011	30	-.8734209759+009	-.4665580916+009
31	.2131456533+012	-.1189985141+012	31	.2212245148+010	-.5737775845+010
40	.2242531339+020	-.3187404925+020	40	.2232688622+018	-.2079408302+018
41	-.3452770282+021	-.3145378456+021	41	.1909943113+019	.1594195846+019
50	-.8472034486+030	-.2673254256+030	50	.4617539136+027	.9812451134+027
51	-.3613601005+031	.7825846697+031	51	-.9253698540+028	.5886861847+028
60	-.2201275949+042	.2918615752+040	60	-.2743703595+038	.3874218781+037
61	.2356087708+041	.3203953636+042	61	-.8857008999+038	-.3228094612+039
70	.1811273903+051	-.5307469753+052	70	.5631019169+048	-.3646667655+049
71	-.2071396855+053	-.1308440395+052	71	.5183437218+050	.1308422801+049
80	-.1635273465+063	-.2528327054+063	80	.1834362131+061	.8699939519+060
81	-.1674672008+064	.8002814071+065	81	-.1006793726+062	.3094095291+062
90	-.9165272074+076	.1066293888+075	90	-.2582852706+073	.2886462902+073
91	.165085814+077	.5745238148+077	91	-.5749535360+074	-.3945835414+074
99	-.1282164021+087	.4198719845+087	99	-.1028102987+085	.4677216721+084
100	.2001751490+088	.9060038643+089	100	-.1178542807+086	-.1898446982+086

REAL X = .1300000000000001		IMAGINARY X = -.1000000000000003			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.3763065198+041	.1290186653+042	0	.1290186653+042	-.3763065198+041
1	.1277335878+042	-.3723763945+041	1	-.3723763945+041	-.1277335878+042
2	-.3646390388+041	-.1252018254+042	2	-.1252018254+042	.3646390388+041
3	-.1214982518+042	.3533338489+041	3	.3533338489+041	-.1214982518+042
4	.3388044013+041	.1167305328+042	4	.1167305328+042	-.3388044013+041
5	.1110339125+042	-.3214810887+041	5	-.3214810887+041	-.1110339125+042
6	-.3018599402+041	-.1045648302+042	6	-.1045648302+042	.3018599402+041
7	-.9749378716+041	.2804790802+041	7	.2804790802+041	-.9749378716+041
8	.2578043795+041	.8999791736+041	8	.8999791736+041	-.2578043795+041
9	.8225371144+041	-.2346558258+041	9	-.2346558258+041	-.8225371144+041
10	-.2112859828+041	-.7443030311+041	10	-.7443030311+041	.2112859828+041
11	-.6668366020+041	.1882616628+041	11	.1882616628+041	-.6668366020+041
12	.165996123+041	.5915193354+041	12	.5915193354+041	-.165996123+041
13	.5195211632+041	-.1448466590+041	13	-.1448466590+041	.5195211632+041
14	-.1250744115+041	-.4517806490+041	14	-.4517806490+041	.1250744115+041
15	-.3889983639+041	.1068782833+041	15	.1068782833+041	-.3889983639+041
16	.9038034354+040	.3316421790+041	16	.3316421790+041	-.9038034354+040
17	.2799626035+041	-.7563530501+040	17	-.7563530501+040	.2799626035+041
18	-.6263884525+040	-.2340159073+041	18	-.2340159073+041	.6263884525+040
19	-.1936925903+041	.5133742209+040	19	.5133742209+040	-.1936925903+041
20	.4163877821+040	.1587487979+041	20	.1587487979+041	-.4163877821+040
30	-.2894695455+039	-.1269777141+040	30	-.1269777141+040	.2894695455+039
31	-.9352912820+039	.2094004586+039	31	.2094004586+039	-.9352912820+039
40	.7099782764+037	.3894342051+036	40	.3894342051+036	-.7099782764+037
41	.2610145092+038	-.4624636251+037	41	-.4624636251+037	.2610145092+038
50	-.5975286648+035	-.4712048262+036	50	-.4712048262+036	.5975286648+035
51	-.2882774172+036	.3481526548+035	51	.3481526548+035	-.2882774172+036
60	.1459156425+033	.2324891226+034	60	.2324891226+034	-.1459156425+033
61	.1302828533+034	-.7286321530+032	61	-.7286321530+032	.1302828533+034
70	.4323192080+029	-.4848140138+031	70	-.4848140138+031	.4323192080+029
71	-.2497698893+031	-.4117341159+029	71	-.4117341159+029	.2497698893+031
80	-.3894574767+027	.4434498347+028	80	.4434498347+028	-.3894574767+027
81	.2108192907+028	.2026271581+027	81	.2026271581+027	-.2108192907+028
90	.3215463143+024	-.1846511954+025	90	-.1846511954+025	.3215463143+024
91	-.8130512974+024	-.1489523863+024	91	-.1489523863+024	.8130512974+024
99	-.8805341510+021	-.2279061954+021	99	-.2279061954+021	.8805341510+021
100	-.9752606223+020	.3629646504+021	100	.3629646504+021	-.9752606223+020

REAL X =	FIRST KIND	IMAGINARY X =	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
	REAL BESSEL	SECOND KIND			REAL BESSEL	IMAGINARY BESSEL
0	.6649966577+000	.0000000000	.0000000000	0	-.4715813445-001	.0000000000
1	.3961729707+000	.0000000000	.0000000000	1	-.6964354140+000	.0000000000
2	.1273492837+000	.0000000000	.0000000000	2	-.1345712694+001	.0000000000
3	.2832464158-001	.0000000000	.0000000000	3	-.3789273565+001	.0000000000
4	.4832377030-002	.0000000000	.0000000000	4	-.1633756394+002	.0000000000
5	.6696205965-003	.0000000000	.0000000000	5	-.9423611009+002	.0000000000
6	.7817400966-004	.0000000000	.0000000000	6	-.6747272434+003	.0000000000
7	.7887487444-005	.0000000000	.0000000000	7	-.5753399999+004	.0000000000
8	.7008647775-006	.0000000000	.0000000000	8	-.5685927275+005	.0000000000
9	.5564670144-007	.0000000000	.0000000000	9	-.6386516911+006	.0000000000
10	.3993440699-008	.0000000000	.0000000000	10	-.8032728815+007	.0000000000
11	.2614683536-009	.0000000000	.0000000000	11	-.1118195517+009	.0000000000
12	.1574072188-010	.0000000000	.0000000000	12	-.1706533731+010	.0000000000
13	.8770110325-012	.0000000000	.0000000000	13	-.2833040930+011	.0000000000
14	.4547670923-013	.0000000000	.0000000000	14	-.5082408336+012	.0000000000
15	.2205345682-014	.0000000000	.0000000000	15	-.9797659040+013	.0000000000
16	.1004389961-015	.0000000000	.0000000000	16	-.2019767127+015	.0000000000
17	.4312032068-017	.0000000000	.0000000000	17	-.4433690020+016	.0000000000
18	.1750854984-018	.0000000000	.0000000000	18	-.1932507904+018	.0000000000
19	.6743558830-020	.0000000000	.0000000000	19	-.2542419140+019	.0000000000
20	.2470312039-021	.0000000000	.0000000000	20	-.6599964685+020	.0000000000
30	.1056904243-036	.0000000000	.0000000000	30	-.1035308275+036	.0000000000
31	.2517822809-038	.0000000000	.0000000000	31	-.4207619750+037	.0000000000
40	.1688087892-053	.0000000000	.0000000000	40	-.4878956255+052	.0000000000
41	.3051734815-055	.0000000000	.0000000000	41	-.2633709650+054	.0000000000
50	.2291229428-071	.0000000000	.0000000000	50	-.2882109853+070	.0000000000
51	.3337436360-073	.0000000000	.0000000000	51	-.1940183849+072	.0000000000
60	.4318156903-090	.0000000000	.0000000000	60	-.1276316879+089	.0000000000
61	.5266815867-092	.0000000000	.0000000000	61	-.1029401376+091	.0000000000
70	.1567281210-109	.0000000000	.0000000000	70	-.3017456685+108	.0000000000
71	.1644179702-111	.0000000000	.0000000000	71	-.2836083621+110	.0000000000
80	.1364039315-129	.0000000000	.0000000000	80	-.2992332561+128	.0000000000
81	.1273762381-131	.0000000000	.0000000000	81	-.3211487961+130	.0000000000
90	.3544286196-150	.0000000000	.0000000000	90	-.1039348162+149	.0000000000
91	.2905345721-152	.0000000000	.0000000000	91	-.1254059680+151	.0000000000
99	.4043136538-169	.0000000000	.0000000000	99	-.8286795426+167	.0000000000
100	.3017432473-171	.0000000000	.0000000000	100	-.1099318425+170	.0000000000

REAL X = .1500000000+001		IMAGINARY X = -.1000000000-002	
N	FIRST KIND	SECOND KIND	IMAGINARY BESSEL
0	.6649967261+000	.3961730084-003	-.4715769373-001
1	.3961730839+000	-.1367660403-003	-.6964348651+000
2	.1273492719+000	-.1414744238-003	-.1345710242+000
3	.2832461476-001	-.5181690653-004	-.3789259515+001
4	.4832366113-002	-.1221671467-004	-.1633746572+002
5	.6696179029-003	-.2153893079-005	-.9423528856+002
6	.7817352233-004	-.3048081494-006	-.6747192470+003
7	.7887417304-005	-.3610733565-007	-.5753311271+004
8	.7008563690-006	-.3682287929-008	-.5685816783+005
9	.5564583625-007	-.3298854540-009	-.6386364370+006
10	.3993362653-008	-.2636133341-010	-.8032497632+007
11	.2614620824-009	-.1901681508-011	-.1118157366+009
12	.1574026744-010	-.1250477658-012	-.1706465639+010
13	.8769810378-012	-.7555212952-014	-.2832910253+011
14	.4547489122-013	-.4222391311-015	-.5082140007+012
15	.2205244002-014	-.2195272751-016	-.9797072071+013
16	.1004336867-015	-.1067020838-017	-.2019630860+015
17	.4311773471-017	-.4869375368-019	-.4433355416+016
18	.1750736757-018	-.2094240574-020	-.1032421262+018
19	.6743049532-020	-.8516946426-022	-.2542183192+019
20	.2470104615-021	-.3285039299-023	-.6599290572+020
30	.1056700426-036	-.2111164027-038	-.1035080592+036
31	.2517303694-038	-.5197353015-040	-.4206634578+037
40	.1687503542-053	-.4498022904-055	-.4877091872+052
41	.3050624178-055	-.8335059585-057	-.2632654082+054
50	.2289983209-071	-.7632765298-073	-.2880412979+070
51	.3335546947-073	-.1134045844-074	-.1938996714+072
60	.4314762493-090	-.1726298703-091	-.1275245014+089
61	.5262535324-092	-.2140645271-093	-.1028508516+091
70	.1565600051-109	-.7309794826-111	-.3014031070+108
71	.1642364922-111	-.7777967331-113	-.2832773193+110
80	.1382096624-129	-.7376902233-131	-.2987918533+128
81	.1271929211-131	-.6873940843-133	-.3206633673+130
90	.3537980907-150	-.2125048184-151	-.1037415663+149
91	.2900060962-152	-.1761295563-153	-.1251676716+151
99	.4034424542-169	-.2666290411-170	-.8268207593+167
100	.3010797951-171	-.2009953782-172	-.1096803272+170

REAL BESSEL		IMAGINARY BESSEL	
0	.6964352311-003	-.8814219218-003	-.1994987237-002
1	.1994987237-002	-.8758998454-002	-.5066912285-001
2	-.5066912285-001	-.3606054374+000	-.3054475226+001
3	-.3054475226+001	-.3000987757+002	-.3353995585+003
4	-.3353995585+003	-.4200776284+004	-.5826736257+005
5	-.5826736257+005	-.8865118797+006	-.1467791355+008
6	-.1467791355+008	-.2627059928+009	-.5053976935+010
7	-.5053976935+010	-.1039977822+012	-.530082042+014
8	-.530082042+014	-.1303369322+016	-.3379452014+017
9	-.3379452014+017	-.9214182530+018	-.2136836398+034
10	-.2136836398+034	-.8965158732+035	-.1332476599+051
11	-.8965158732+035	-.7368476517+052	-.9792807815+068
12	-.7368476517+052	-.6721664488+070	-.5187245969+087
13	-.6721664488+070	-.4252313129+089	-.1427381530+107
14	-.4252313129+089	-.1360474079+109	-.1614763170+127
15	-.1360474079+109	-.1754408103+129	-.6300514011+147
16	-.1754408103+129	-.7685548933+149	-.5519685847+166
17	-.7685548933+149	-.7395491532+168	

REAL X = .1500000000+001		IMAGINARY X = -.1000000000-001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.6650034961+000	0	.3961767436-002	0	-.4711406456-001	0	-.6963805260+000	0	-.6963805260+000	0	-.6964171174-002
1	.3961842895+000	1	-.1367670523-002	1	-.1414764490-002	1	-.3787863832+001	1	-.3787863832+001	1	-.8813728419-002
2	.1273481029+000	2	-.5181594538-003	2	-.1221637061-003	2	-.1632774371+002	2	-.1632774371+002	2	-.1994716328-001
3	.2832195901-001	3	-.2153738102-004	3	-.3047683735-005	3	-.9415397873+002	3	-.9415397873+002	3	-.8757181159-001
4	.4831285371-002	4	-.3609997889-006	4	-.3681213852-007	4	-.6739278626+003	4	-.6739278626+003	4	-.5065426994+000
5	.6693512600-003	5	-.3297553787-008	5	-.2634784722-008	5	-.5744530762+004	5	-.5744530762+004	5	-.3604630035+001
6	.7812527823-004	6	-.2634784722-008	6	-.1900457703-010	6	-.6371271356+006	6	-.6371271356+006	6	-.3052911493+002
7	.7880473893-005	7	-.1900457703-010	7	-.1249489599-011	7	-.8009625763+007	7	-.8009625763+007	7	-.2999055977+003
8	.7000240094-006	8	-.1249489599-011	8	-.7548024889-013	8	-.1465556314+009	8	-.1465556314+009	8	-.3351345274+004
9	.5556019549-007	9	-.7548024889-013	9	-.4217631357-014	9	-.2819986159+011	9	-.2819986159+011	9	-.4196781861+005
10	.3985637607-008	10	-.4217631357-014	10	-.2192379680-015	10	-.5055605352+012	10	-.5055605352+012	10	-.5820168544+006
11	.2608413943-009	11	-.2192379680-015	11	-.1065395708-016	11	-.9739035249+013	11	-.9739035249+013	11	-.8853437863+007
12	.1569529240-010	12	-.1065395708-016	12	-.4860888641-018	12	-.2006159290+015	12	-.2006159290+015	12	-.1465556314+009
13	.8740127415-012	13	-.4860888641-018	13	-.2090099570-019	13	-.4406280875+016	13	-.4406280875+016	13	-.2622462419+010
14	.4529499527-013	14	-.2090099570-019	14	-.8497984270-021	14	-.1023858275+018	14	-.1023858275+018	14	-.5043986301+011
15	.2195163634-014	15	-.8497984270-021	15	-.3276859248-022	15	-.2518867893+019	15	-.2518867893+019	15	-.1937663103+013
16	.9990840907-016	16	-.3276859248-022	16	-.20986645469-037	16	-.6532689152+020	16	-.6532689152+020	16	-.2273540753+014
17	.4286192040-017	17	-.20986645469-037	17	-.5164333357-039	17	-.1012633261+036	17	-.1012633261+036	17	-.5285414353+015
18	.1739042620-018	18	-.5164333357-039	18	-.4449352712-054	18	-.4109530801+037	18	-.4109530801+037	18	-.1299380771+017
19	.6692679339-020	19	-.4449352712-054	19	-.8240132570-056	19	-.4693806023+052	19	-.4693806023+052	19	-.3368071698+018
20	.244992710-021	20	-.8240132570-056	20	-.7501854666-072	20	-.2528915854+054	20	-.2528915854+054	20	-.9180167790+019
30	.1036578768-036	30	-.7501854666-072	30	-.113788594-073	30	-.2714193846+070	30	-.2714193846+070	30	-.2120366632+035
31	.2466065336-038	31	-.113788594-073	31	-.1683304359-090	31	-.1822756169+072	31	-.1822756169+072	31	-.8891742617+036
40	.1629953128-053	40	-.1683304359-090	40	-.2085505438-092	40	-.1170704308+089	40	-.1170704308+089	40	-.1314926970+052
41	.2941272535-055	41	-.2085505438-092	41	-.7060796327-110	41	-.9414678316+090	41	-.9414678316+090	41	-.7266821439+053
50	.2167634184-071	50	-.7060796327-110	50	-.7505304194-112	50	-.2681621407+108	50	-.2681621407+108	50	-.9596322935+069
51	.3150117833-073	51	-.7505304194-112	51	-.7047807419-130	51	-.2511717641+110	51	-.2511717641+110	51	-.6581641781+071
60	.3982809295-090	60	-.7047807419-130	60	-.6559586501-132	60	-.2562090440+128	60	-.2562090440+128	60	-.5040084831+088
61	.4844103996-092	61	-.6559586501-132	61	-.2004995167-150	61	-.2738625749+130	61	-.2738625749+130	61	-.4127817255+090
70	.1401954863-109	70	-.2004995167-150	70	-.1659568919-152	70	-.8522093014+148	70	-.8522093014+148	70	-.1373047483+108
71	.1465802385-111	71	-.1659568919-152	71	-.2484105052-169	71	-.1023458722+151	71	-.1023458722+151	71	-.1307265096+110
80	.1194011449-129	80	-.2484105052-169	80	-.2376794409-171	80	-.6498469309+167	80	-.6498469309+167	80	-.1535436483+128
81	.1094550532-131	81	-.2376794409-171	81		81	-.8575207976+169	81	-.8575207976+169	81	-.1666151027+130
90	.2931264792-150	90		90		90		90		90	-.5912894701+143
91	.2391877298-152	91		91		91		91		91	-.7202637537+150
99	.3201291424-169	99		99		99		99		99	-.5112369313+167
100	.2376794409-171	100		100		100		100		100	-.68399195335+169

REAL X = .1500000000+001		IMAGINARY X = -.1000000000+000	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	.6656807435+000	0	-.4276335870-001
1	.3973054959+000	1	-.6909899884+000
2	.1272311060+000	2	-.1321466713+001
3	.2805611814-001	3	-.3650871420+001
4	.4723185287-002	4	-.1537486723+002
5	.6427206612-003	5	-.8623117492+002
6	.7331776259-004	6	-.5973241754+003
7	.7190628026-005	7	-.4900843914+004
8	.6176351591-006	8	-.4632831200+005
9	.4712121378-007	9	-.4945476171+006
10	.3228395446-008	10	-.5869682771+007
11	.2003628247-009	11	-.7649211452+008
12	.1134255638-010	12	-.1082995666+010
13	.5888932586-012	13	-.1650531298+011
14	.2815803853-013	14	-.2684810093+012
15	.1243589414-014	15	-.4622847606+013
16	.508094744-016	16	-.835352562+014
17	.1920423614-017	17	-.1568581992+016
18	.6698972701-019	18	-.3022165050+017
19	.2143713007-020	19	-.5862966866+018
20	.6212334501-022	20	-.1107335253+020
30	-.4646272779-037	30	.4550706155+035
31	-.1270572572-038	31	.2071548175+037
40	-.1635717509-053	40	.4078004852+052
41	-.3059912959-055	41	.2255682635+054
50	-.2516134497-071	50	.2492698890+070
51	-.3619191245-073	51	.1641860371+072
60	-.3250829492-090	60	.6773180538+088
61	-.3603234501-092	61	.4964522651+090
70	-.9818944115-111	70	-.3317939607+106
71	.2485720594-113	71	-.1918818442+109
80	.9496899190-130	80	-.1569636117+128
81	.9570231644-132	81	-.1815800657+130
90	.4142945438-150	90	-.8277529859+148
91	.3464359307-152	91	-.1009599164+151
99	.4801319138-169	99	-.6182477281-167
100	.3507708330-171	100	-.7952364486+169

IMAGINARY BESSEL

0	-.6946144456-001
1	-.8764995187-001
2	-.1967871306+000
3	-.8577645775+000
4	-.4919203161+001
5	-.3464959081+002
6	-.2900243908+003
7	-.2811366873+004
8	-.3095202007+005
9	-.3812747580+006
10	-.5192928987+007
11	-.7745217520+008
12	-.1254998181+010
13	-.2194463784+011
14	-.4117194167+012
15	-.8247254280+013
16	-.1756184362+015
17	-.3960238664+016
18	-.9425029609+017
19	-.2360071416+019
20	-.6200784480+020
30	-.8526097543+035
31	-.3326862557+037
40	-.1792815837+052
41	-.8172860419+053
50	.6414302056+069
51	.54130866324+071
60	.8854573801+088
61	.7472660244+090
70	.2577622083+108
71	.2409895202+110
80	.1946243977+128
81	.1967712603+130
90	.1905028833+148
91	.1626623826+150
99	-.2418388207+167
100	-.3738432994+169

REAL X = .1500000000+001		IMAGINARY X = -.5000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.6822529130+000	0	.2028437552+000	0	.5609892777-001	0	.5609892777-001	0	.5609892777-001	0	.5609892777-001
1	.4248819245+000	1	-.6967015822-001	1	-.7332088527-001	1	-.7332088527-001	1	-.7332088527-001	1	-.7332088527-001
2	.1243366461+000	2	-.2595585149-001	2	-.5665232363-002	2	-.5665232363-002	2	-.5665232363-002	2	-.5665232363-002
3	.2144889902-001	3	-.8799439017-003	3	-.1030232442-003	3	-.1030232442-003	3	-.1030232442-003	3	-.1030232442-003
4	.2086921871-002	4	-.6136446566-006	4	-.2500333576-007	4	-.2500333576-007	4	-.2500333576-007	4	-.2500333576-007
5	.1789733843-004	5	.2936110793-009	5	.1685773476-009	5	.1685773476-009	5	.1685773476-009	5	.1685773476-009
6	-.3292285361-004	6	.1897768934-010	6	.1484342222-011	6	.1484342222-011	6	.1484342222-011	6	.1484342222-011
7	-.6835161575-005	7	.4858561268-014	7	.9290678082-013	7	.9290678082-013	7	.9290678082-013	7	.9290678082-013
8	-.8831325069-005	8	.2143672891-015	8	.4858561268-014	8	.4858561268-014	8	.4858561268-014	8	.4858561268-014
9	-.863981 261-007	9	.7844844168-017	9	.2216992978-018	9	.2216992978-018	9	.2216992978-018	9	.2216992978-018
10	-.6793870955-008	10	.3443930909-020	10	.9518639874-022	10	.9518639874-022	10	.9518639874-022	10	.9518639874-022
11	-.4377779628-009	11	.1101519294-036	11	.6617420207-038	11	.6617420207-038	11	.6617420207-038	11	.6617420207-038
12	-.2292073006-010	12	.4037851990-053	12	.1532239409-054	12	.1532239409-054	12	.1532239409-054	12	.1532239409-054
13	-.9214347927-012	13	.1162321430-070	13	.3138741423-072	13	.3138741423-072	13	.3138741423-072	13	.3138741423-072
14	-.2196158665-013	14	.44295561734-089	14	.9137526058-091	14	.9137526058-091	14	.9137526058-091	14	.9137526058-091
15	.4438562151-015	15	.3147157917-108	15	.5196846498-110	15	.5196846498-110	15	.5196846498-110	15	.5196846498-110
16	.9423239195-015	16	.5312081468-128	16	.7257304300-130	16	.7257304300-130	16	.7257304300-130	16	.7257304300-130
17	.7121037272-017	17	-.2552383067-148	17	.2956313071-150	17	.2956313071-150	17	.2956313071-150	17	.2956313071-150
18	.3954815796-018	18	.2956313071-150	18	.3129123119-167	18	.3129123119-167	18	.3129123119-167	18	.3129123119-167
19	.1807899079-019	19	-.4016551960-169	19	-.4016551960-169	19	-.4016551960-169	19	-.4016551960-169	19	-.4016551960-169
20	.7041436566-021	20	.4264767871-169	20	.4264767871-169	20	.4264767871-169	20	.4264767871-169	20	.4264767871-169
30	-.5024194810-036	30	.4264767871-169	30	.4264767871-169	30	.4264767871-169	30	.4264767871-169	30	.4264767871-169
31	-.1109113874-037	31	.4264767871-169	31	.4264767871-169	31	.4264767871-169	31	.4264767871-169	31	.4264767871-169
40	.1330677253-052	40	.4264767871-169	40	.4264767871-169	40	.4264767871-169	40	.4264767871-169	40	.4264767871-169
41	.2161881297-054	41	.4264767871-169	41	.4264767871-169	41	.4264767871-169	41	.4264767871-169	41	.4264767871-169
50	-.2976569473-070	50	.4264767871-169	50	.4264767871-169	50	.4264767871-169	50	.4264767871-169	50	.4264767871-169
51	-.3770838110-072	51	.4264767871-169	51	.4264767871-169	51	.4264767871-169	51	.4264767871-169	51	.4264767871-169
60	.9184448103-089	60	.4264767871-169	60	.4264767871-169	60	.4264767871-169	60	.4264767871-169	60	.4264767871-169
61	.9400242789-091	61	.4264767871-169	61	.4264767871-169	61	.4264767871-169	61	.4264767871-169	61	.4264767871-169
70	-.5419124959-103	70	.4264767871-169	70	.4264767871-169	70	.4264767871-169	70	.4264767871-169	70	.4264767871-169
71	-.4584058101-110	71	.4264767871-169	71	.4264767871-169	71	.4264767871-169	71	.4264767871-169	71	.4264767871-169
80	.7712812615-128	80	.4264767871-169	80	.4264767871-169	80	.4264767871-169	80	.4264767871-169	80	.4264767871-169
81	.5474551499-130	81	.4264767871-169	81	.4264767871-169	81	.4264767871-169	81	.4264767871-169	81	.4264767871-169
90	-.3162010181-148	90	.4264767871-169	90	.4264767871-169	90	.4264767871-169	90	.4264767871-169	90	.4264767871-169
91	-.1894420119-150	91	.4264767871-169	91	.4264767871-169	91	.4264767871-169	91	.4264767871-169	91	.4264767871-169
99	.6757747743-167	99	.4264767871-169	99	.4264767871-169	99	.4264767871-169	99	.4264767871-169	99	.4264767871-169
100	.4264767871-169	100	.4264767871-169	100	.4264767871-169	100	.4264767871-169	100	.4264767871-169	100	.4264767871-169

REAL X = .1500000000+001		IMAGINARY X = -.1000000000+001	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	.735985122+000	.4352367789+000	0
1	.5160828090+000	-.1472918074+000	1
2	.1145522532+000	-.1627951500+000	2
3	-.1277378476-002	-.5215507236-001	3
4	-.6345166282-002	-.8457129710-002	4
5	-.1659722267-002	-.5457730611-003	5
6	-.2338840958-003	.6876034345-004	6
7	-.1862368201-004	.2279873858-004	7
8	-.2740346164-006	.3121622047-005	8
9	.1450796983-006	.2605764100-006	9
10	.2290218912-007	.1159086148-007	10
11	.2000568257-008	-.2508382582-009	11
12	.1097754355-009	-.9573840010-010	12
13	.2520615427-011	-.9409161873-011	13
14	-.1962677364-012	-.5737350752-012	14
15	-.2810138219-013	-.2137355148-013	15
16	-.1927394688-014	.1150761369-015	16
17	-.8585612615-016	.5038425530-016	17
18	-.2111637566-017	.4371210138-017	18
19	.3130769161-019	.2223824535-018	19
20	.6586572253-020	.7366325459-020	20
30	.677006212-035	.2499086560-034	30
31	.6060087067-036	.4555087985-036	31
40	-.1599700124-051	.2650027905-050	40
41	.2908142875-052	.4980381854-052	41
50	-.1003805639-067	.2028271723-067	50
51	.5084917435-070	.3928675106-069	51
60	-.2031429147-085	.1747629569-085	60
61	-.1955863053-087	.3783337511-087	61
70	-.5822708996-104	.1858676222-104	70
71	-.4807381396-106	.6022543438-106	71
80	-.3377835551-123	.3146536478-124	80
81	-.3301431156-125	.1783184328-125	81
90	-.4805204686-143	-.2594218174-143	90
91	-.5356451364-145	.4998797115-146	91
99	-.2776955988-162	-.3246441529-161	99
100	-.1822604364-163	-.2284496507-163	100

REAL X = -.1000000000+001		IMAGINARY BESSEL	
SECOND KIND		N	
REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL
.3103161507+000	-.4159543327+000	0	0
-.3278213369+000	.6547939963+000	1	1
.5442322072+001	.2871206325+002	2	2
.1189256527+003	.1579540576+003	3	3
-.4839449683+004	-.5687128982+005	4	4
.4653964775+005	-.9182108251+007	5	5
-.1090643891+006	-.4157688605+008	6	6
-.7752760789+007	.6615299383+009	7	7
-.1471705470+009	.2498530709+011	8	8
-.1940711642+011	.5069283884+012	9	9
-.3480078081+011	.7059936006+013	10	10
.4356805188+013	.7039838271+014	11	11
.1431547223+015	-.4120215326+015	12	12
.3066278985+016	-.4201486530+017	13	13
.4752874895+017	-.1326200541+019	14	14
.3482728185+018	-.2741545957+033	15	15
.2070792543+033	-.1160177198+035	16	16
.6744884189+033	-.1298236716+049	17	17
.2230177617+049	-.1041205784+051	18	18
.5095949012+050	-.3094981534+065	19	19
.2407604435+066	-.8926795808+067	20	20
.1025735523+068	.4609394035+085	30	30
.1647772152+084	-.3562579426+085	31	31
.1091659716+086	.4018117762+102	40	40
.5029168925+102	.4321862974+103	41	41
.5015819795+104	.8938270115+121	50	50
.4823819157+121	.4251029794+123	51	51
.8912457421+123	.5588398479+141	60	60
.5199934780+140	.4378368401+143	70	70
.3546971312+143	.5334114403+159	80	80
-.6688996001+159	.899483636077+161	90	90
..2876686165+161		99	99
		100	100

REAL X = .1500000000+001		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.1527962033+001	0	.2583499773+001	0	.2583499773+001	0	.2583499773+001	0	.1522279532+001
1	.2084581904+001	1	.7703563536+000	1	.7703563536+000	1	.7793825701+000	1	-.2101193869+001
2	-.7784418810-001	2	-.1223976791+000	2	-.1223976791+000	2	-.1200584839+001	2	.5829592849-001
3	-.5045089755+000	3	-.1494204243+000	3	-.1494204243+000	3	-.9873522735-001	3	.5392780356+000
4	-.1141127303+000	4	.1427676403+000	4	.1427676403+000	4	.1017796272+000	4	.2607244804+000
5	.2493136237-001	5	.4687104010-001	5	.4687104010-001	5	-.4048667929+000	5	.1786244599-001
6	.1319034414-001	6	-.8914519089-003	6	-.8914519089-003	6	-.7479824957+000	6	-.1422138947+001
7	.1022267422-002	7	-.2689697050-002	7	-.2689697050-002	7	.4038446663+001	7	-.5075909272+001
8	-.3870210946-003	8	.3988725026-003	8	.3988725026-003	8	.2912851291+002	8	.7424107053+001
9	-.9129322487-004	9	.3109041543-004	9	.3109041543-004	9	.2833023062+002	9	.1539531438+003
10	-.1779846579-005	10	.1508254905-004	10	.1508254905-004	10	-.7373878572+003	10	.5261303590+003
11	.1847379782-005	11	.1173581056-005	11	.1173581056-005	11	-.5039346241+004	11	-.2810160139+004
12	.2471807672-006	12	-.1529711438-006	12	-.1529711438-006	12	.2519041568+004	12	-.4005194506+005
13	-.3636266698-008	13	-.3561308751-007	13	-.3561308751-007	13	.2804491186+006	13	-.1139027130+006
14	-.3857097241-008	14	-.1417091494-008	14	-.1417091494-008	14	.1827197319+007	14	.1649235832+007
15	-.3190017448-009	15	.3054483947-009	15	.3054483947-009	15	-.5969376588+007	15	.2062127386+008
16	.1351663302-010	16	.4253043568-010	16	.4253043568-010	16	-.1969698178+009	16	.3423851633+008
17	.4207096096-011	17	.6318928730-012	17	.6318928730-012	17	-.1161996765+010	17	-.1603306199+010
18	.2188152765-012	18	-.3153720464-012	18	-.3153720464-012	18	.9738509433+010	18	-.1836163725+011
19	-.1593654091-013	19	-.2875090743-013	19	-.2875090743-013	19	.2303734642+012	19	.7105855485+010
20	-.2675851946-014	20	.1273023595-015	20	.1273023595-015	20	.1114302607+013	20	.2451196113+013
30	-.5397151516-027	30	-.3422065261-026	30	-.3422065261-026	30	.1337810730+025	30	-.4315299562+024
31	-.1756371588-027	31	.5530093801-028	31	.5530093801-028	31	.1788857857+026	31	.1833081258+026
40	.1646986714-039	40	-.4196440491-040	40	-.4196440491-040	40	-.4650861170+037	40	-.2110561438+038
41	.1449768048-041	41	.6706781624-041	41	.6706781624-041	41	.4065410976+039	41	-.3281766717+039
50	.2351320676-054	50	.6734738568-054	50	.6734738568-054	50	-.4098056986+052	50	.5337091157+051
51	.2302805989-055	51	.2938389657-056	51	.2938389657-056	51	.6951597008+053	51	-.1033192719+054
60	-.3810783205-069	60	.169802473-069	60	.169802473-069	60	.2711700216+066	60	.5895068374+067
61	-.5018899418-072	61	.1135916944-070	61	.1135916944-070	61	-.1859913329+069	61	.1037895152+069
70	-.2256483826-085	70	-.4131134158-085	70	-.4131134158-085	70	.4486136363+083	70	.1587857402+082
71	-.1102988682-086	71	.4051771906-088	71	.4051771906-088	71	.7831724449+084	71	.1717589995+085
80	.1082606047-101	80	-.7088293806-102	80	-.7088293806-102	80	.1646374286+099	80	-.1420809809+100
81	-.3091374777-104	81	-.2644056324-103	81	-.2644056324-103	81	.6455957160+101	81	-.2341512029+101
90	.6318805996-119	90	.8164747243-119	90	.8164747243-119	90	-.1564752461+117	90	-.3081340124+116
91	.1855950439-120	91	-.3670482577-121	91	-.3670482577-121	91	-.2287182495+118	91	-.8298532918+118
99	-.1530937529-134	99	-.5945062267-135	99	-.5945062267-135	99	.6757141594+132	99	.6124063837+132
100	-.2029071666-136	100	.1841462765-136	100	.1841462765-136	100	-.1458388355+134	100	.5211271024+134

REAL X = .1500000000+001		IMAGINARY X = -.1000000000+002	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	.2373488478+003	0	.1062962131+004
1	.9624868439+003	1	-.1985426701+003
2	-.1367378856+003	2	-.7893077205+003
3	-.5865469693+003	3	.7378274687+002
4	.2599426333+002	4	.3953363801+003
5	.2420056231+003	5	.1293288553+001
6	.1166667083+002	6	-.1347793172+002
7	-.6842307968+002	7	-.1216397952+002
8	-.8878591476+001	8	.3172641485+002
9	.1346061947+002	9	.5314625682+001
10	.2754601935+001	10	-.5232300033+001
11	-.1865067576+001	11	-.1268391830+001
12	-.5284385204+000	12	.6068440908+000
13	.1818769070+000	13	.1914575891+000
14	.7020238459+001	14	-.3614376480+001
15	-.1202768271+001	15	.7724467397+001
16	-.6827246369+002	16	-.5692818041+001
17	.4473909219+003	17	-.1245947451+001
18	.5024354392+003	18	-.3950736540+000
19	.4296251243+005	19	.1784559963+002
20	-.2854877516+004	20	.2546842074+002
30	.2200512256+013	30	-.9030780611+009
31	.2625328112+012	31	-.1626341038+010
40	.4287402138+020	40	-.2248106413+016
41	-.2346276125+023	41	.2198325913+019
50	-.2663559116+030	50	.9395619947+027
51	-.9819989474+031	51	.3372922145+027
60	-.3201156438+040	60	-.5064580081+037
61	.6209882231+042	61	-.2822770113+039
70	.1031556528+051	70	-.2890711909+049
71	.1524552724+052	71	.7197601313+049
80	.3165544638+063	80	.6524583324+060
81	-.9346618633+065	81	.2511682868+062
90	-.1095459126+075	90	.2644962672+073
91	-.8656429600+077	91	-.1894115347+074
99	-.4483255472+087	99	.6329575038+084
100	-.2122144337+086	100	-.9502874832+085

IMAGINARY BESSEL	
0	-.2373488474+003
1	-.9624868488+003
2	.1367378849+003
3	.5865469771+003
4	-.2599426100+002
5	-.2420056402+003
6	-.1166668103+002
7	.6842313151+002
8	.8878647108+001
9	-.1346082320+002
10	-.2754975535+001
11	.1866058052+001
12	.5314927180+000
13	-.1874076808+000
14	-.1001622761+000
15	.4228543141+001
16	.3535815575+000
17	-.5484301027+001
18	-.4646597360+001
19	-.3896877336+001
20	.7048343385+002
30	.1369018504+003
31	.5417273799+010
40	-.2735312004+018
41	-.3381641376+018
50	.1043329222+027
51	.9527811562+028
60	.2293736409+038
61	-.1992356844+038
70	-.9484091713+048
71	-.4202076407+050
80	-.1491733374+061
81	.6804953292+061
90	.1460925014+073
91	.5083469928+074
99	.5814608365+084
100	.1404381035+086

REAL X = .1500000000+001		IMAGINARY X = -.1000000000+003	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	N	REAL BESSEL
0	.1151594066+041	0	.1338964295+042
1	.1325594934+042	1	-.1138072721+041
2	-.111495729+041	2	-.1299256595+042
3	.1260730061+042	3	.1072768204+041
4	.1023184160+041	4	.1211137958+042
5	.1151890264+042	5	-.9643556599+040
6	-.8981269855+040	6	-.1084617614+042
7	-.1011096787+042	7	.8264801303+040
8	.7514382932+040	8	.9331731293+041
9	.8526846148+041	9	-.6749737946+040
10	-.5989260759+040	10	-.7713918208+041
11	-.6909173917+041	11	.5249342352+040
12	.4543870731+040	12	.6126976293+041
13	.5379477977+041	13	-.3883920278+040
14	.3277628302+040	14	-.4676416602+041
15	-.4025047678+041	15	.2730243526+040
16	.2244320587+040	16	.3430201784+041
17	.2894446413+041	17	-.1820027542+040
18	-.145529988+040	18	-.2418328725+041
19	-.2000673703+041	19	.1147415540+040
20	.8911255067+039	20	.1638912588+041
30	-.2209255702+038	30	-.1302459134+040
31	-.9586015833+039	31	.1196770925+038
40	.1329651878+037	40	.3957893628+038
41	.2649869637+036	41	.1042387225+037
50	.4560864850+035	50	-.4730778331+036
51	-.2890188013+036	51	-.2986692742+035
60	-.3928936479+033	60	.2298121784+034
61	.1285570214+034	61	.2301976445+033
70	.1209937439+031	70	-.4700542080+031
71	-.2416422166+031	71	-.6445399904+030
80	-.1498038428+028	80	.4198545883+028
81	.1990735971+028	81	.7316508031+027
90	.8006561994+024	90	-.1698177812+025
91	-.7453163320+024	91	-.3606791931+024
99	-.7845096659+021	99	-.4637453909+021
100	-.1950709148+021	100	.3221219781+021
			-.1082648522+046
			-.1151594066+041
			-.1325594934+042
			.111495729+041
			.1260730061+042
			-.1023184160+041
			-.1151890264+042
			.8981269855+040
			.1011096787+042
			-.7514382932+040
			-.8526846148+041
			.5989260759+040
			.6909173917+041
			-.4543870731+040
			-.5379477977+041
			.3277628302+040
			.4025047678+041
			-.2244320587+040
			-.2894446413+041
			.145529988+040
			.2000673703+041
			-.8911255067+039
			.2209255702+038
			.9586015833+039
			.1329651882+037
			-.2649869639+038
			-.4560908668+035
			.2890210943+036
			.4981804341+033
			-.1761652682+034
			-.5820646921+035
			.2287794138+036
			.7123680509+038
			-.2443768121+039
			-.1859615955+042
			.5569747593+042
			.4539789149+045
			.9987651669+045

REAL X = .1600000000+001		IMAGINARY X = .0000000000		SECOND KIND	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6247335019+000	.0000000000	0	.1824970144-001	.0000000000
1	.4087081401+000	.0000000000	1	-.6133274385+000	.0000000000
2	.1415942608+000	.0000000000	2	-.1168238649+001	.0000000000
3	.3377392499-001	.0000000000	3	-.3037418338+001	.0000000000
4	.6166660979-002	.0000000000	4	-.1212046658+002	.0000000000
5	.9135430196-003	.0000000000	5	-.6514020619+002	.0000000000
6	.1139472806-003	.0000000000	6	-.4357184509+003	.0000000000
7	.1227863571-004	.0000000000	7	-.3475072208+004	.0000000000
8	.1164929119-005	.0000000000	8	-.3214308350+005	.0000000000
9	.9873618030-007	.0000000000	9	-.3380451899+006	.0000000000
10	.7563022131-008	.0000000000	10	-.3982143547+007	.0000000000
11	.5284851738-009	.0000000000	11	-.5192758887+008	.0000000000
12	.3395224174-010	.0000000000	12	-.7424769464+009	.0000000000
13	.2018603366-011	.0000000000	13	-.1154927470+011	.0000000000
14	.1116900695-012	.0000000000	14	-.1941515336+012	.0000000000
15	.5779142917-014	.0000000000	15	-.3507447272+013	.0000000000
16	.2808245374-015	.0000000000	16	-.6776263936+014	.0000000000
17	.1286316675-016	.0000000000	17	-.1394096989+016	.0000000000
18	.5572352170-018	.0000000000	18	-.3042810900+017	.0000000000
19	.2289764450-019	.0000000000	19	-.7022559237+018	.0000000000
20	.8948677491-021	.0000000000	20	-.1708706003+020	.0000000000
30	.7308499455-036	.0000000000	30	-.1403850995+035	.0000000000
31	.1857288618-037	.0000000000	31	-.5348371962+036	.0000000000
40	.2227063963-052	.0000000000	40	-.3467382001+051	.0000000000
41	.4294694276-054	.0000000000	41	-.1754659588+053	.0000000000
50	.5765687014-070	.0000000000	50	-.1073805818+069	.0000000000
51	.8958528054-072	.0000000000	51	-.6776663323+070	.0000000000
60	.2072404217-088	.0000000000	60	-.2493286287+087	.0000000000
61	.2696259375-090	.0000000000	61	-.1885212461+089	.0000000000
70	.1434454527-107	.0000000000	70	-.3090907550+106	.0000000000
71	.1605182291-109	.0000000000	71	-.2723506443+108	.0000000000
80	.2415646041-127	.0000000000	80	-.1607335943+126	.0000000000
81	.2371412041-129	.0000000000	81	-.1617220031+128	.0000000000
90	.1179630617-147	.0000000000	90	-.2927677926+146	.0000000000
91	.1031449032-149	.0000000000	91	-.3311673941+148	.0000000000
99	.2405620527-166	.0000000000	99	-.1305737818+165	.0000000000
100	.1915041970-168	.0000000000	100	-.1623905355+167	.0000000000

REAL X = .16000000000+001		IMAGINARY X = -.1000000000-002			
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.6247335588+000	.4087081787-003	0	.1825009389-001	-.6133272973-003
1	.4087082560+000	-.1138483343-003	1	-.6133270150+000	-.7849086497-003
2	.1415942552+000	-.1432189218-003	2	-.1169236878+001	-.1577118161-002
3	.3377398844-001	-.5715944984-004	3	-.3037408722+001	-.6425295439-002
4	.6166699038-002	-.1450310608-004	4	-.1212040352+002	-.3483894964-001
5	.9135398366-003	-.2740872959-005	5	-.6513971198+002	-.2321544967+000
6	.1139466623-003	-.4150231941-006	6	-.4357159439+003	-.1841119682+001
7	.1227854040-004	-.5255400809-007	7	-.3475025350+004	-.1693954609+002
8	.1164916898-005	-.5725894701-008	8	-.3214253673+005	-.1773285315+003
9	.9873443647-007	-.5478260852-009	9	-.3380381164+006	-.2080621815+004
10	.7562842639-008	-.4674019178-010	10	-.3982043085+007	-.2703892154+005
11	.5284740627-009	-.3599362834-011	11	-.5192603516+008	-.3854702692+006
12	.3395138212-010	-.2526214424-012	12	-.7424509576+009	-.5980616823+007
13	.2018542902-011	-.1628932500-013	13	-.1154880724+011	-.1003121259+009
14	.1116861515-012	-.9714992594-015	14	-.1941425371+012	-.1808589625+010
15	.5778908597-014	-.5389801062-016	15	-.3507262816+013	-.3487963209+011
16	.2808115062-015	-.2795344453-017	16	-.6775862560+014	-.7164547623+012
17	.1286248948-016	-.1361118073-018	17	-.1394004609+016	-.1561544476+014
18	.5572021780-018	-.6245888979-020	18	-.3042586679+017	-.3599299152+015
19	.2289612591-019	-.2710093067-021	19	-.7021986879+018	-.8747509278+016
20	.8948017493-021	-.1115225883-022	20	-.1708552720+020	-.2235580794+018
30	.7307261149-036	-.1368414243-037	30	-.1403579734+035	-.2715965067+033
31	.1856952168-037	-.3543719258-039	31	-.5347271664+036	-.1068192687+035
40	.2226386522-052	-.5562829375-054	40	-.3466217673+051	-.8877098519+049
41	.4293320795-054	-.1099595212-055	41	-.1754041598+053	-.4601947901+051
50	.5762931072-070	-.1800605891-071	50	-.1073250220+069	-.3420406922+067
51	.8954071022-072	-.2853710638-073	51	-.6773019379+070	-.2200931994+069
60	.2070972517-088	-.7767090170-090	60	-.2491446075+087	-.9499886408+085
61	.2694333511-090	-.1027367066-091	61	-.1883775403+039	-.7300789417+087
70	.1433102229-107	-.6272218034-109	70	-.3087823582+106	-.1370765450+105
71	.1603625164-109	-.7118987060-111	71	-.2720712479+108	-.1224838142+107
80	.2412666003-127	-.1207101686-128	80	-.1605252068+126	-.8131917617+124
81	.2368412495-129	-.1199803755-130	81	-.1615071564+128	-.8282886832+126
90	.1177786183-147	-.6631009524-149	90	-.2922893557+146	-.1663928170+145
91	.1029800047-149	-.5862416920-151	91	-.3306143105+148	-.1902836660+147
99	.2401064635-166	-.1487365538-167	99	-.1303163586+165	-.8154330496+163
100	.1911341150-168	-.1195994704-169	100	-.1620639838+167	-.1024258945+166

REAL X = .1600000000+001		IMAGINARY X = -.1000000000-001		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND		SECOND KIND		REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.6247391943+000	0	.4087120021-002	0	.1828894601-001	0	-.6133133229-002
1	.4087197260+000	1	-.1138490842-002	1	-.6132850930+000	1	-.7848740155-002
2	.1415936986+000	2	-.1432209768-002	2	-.1168061605+001	2	-.1576933368-001
3	.3377127036-001	3	-.5715959550-003	3	-.3036456859+001	3	-.6424131480-001
4	.6165466900-002	4	-.1450277509-003	4	-.1211416172+002	4	-.3483003143+000
5	.9132247254-003	5	-.2740704977-004	5	-.6509079666+002	5	-.2320743288+001
6	.1138854464-003	6	-.4149764089-005	6	-.4352678700+003	6	-.1840294749+002
7	.1226910505-004	7	-.5254470058-006	7	-.3470388018+004	7	-.1692999476+003
8	.1163707161-005	8	-.5724438088-007	8	-.3208842942+005	8	-.1772057170+004
9	.9860181381-007	9	-.5476373161-008	9	-.3373381861+006	9	-.2078886107+005
10	.7550075121-008	10	-.4671926802-009	10	-.3972103193+007	10	-.2701218657+006
11	.5273743091-009	11	-.3597334116-010	11	-.5177232226+008	11	-.3650246004+007
12	.3386630448-010	12	-.2524465049-011	12	-.7398800520+009	12	-.5972624041+008
13	.2012548998-011	13	-.1627573602-012	13	-.1150256951+011	13	-.1001586897+010
14	.1112984343-012	14	-.9705386016-014	14	-.1932527664+012	14	-.1805450668+011
15	.5755722497-014	15	-.5383568683-015	15	-.3489021846+013	15	-.3481146243+012
16	.2795221701-015	16	-.2791607958-016	16	-.6736175213+014	16	-.7148885121+013
17	.1279548520-016	17	-.1359035689-017	17	-.1384871347+016	17	-.1557748933+015
18	.5539333848-018	18	-.6235046177-019	18	-.3020421913+017	18	-.3589624286+016
19	.2274591744-019	19	-.2704795026-020	19	-.6965416204+018	19	-.8721632730+017
20	.8882753256-021	20	-.1112787197-021	20	-.1693404825+020	20	-.2228334932+019
30	.7184969305-036	30	-.1361284542-036	30	-.1376822653+035	30	-.2697566179+034
31	.1823731281-037	31	-.3573655703-038	31	-.5238762598+036	31	-.1060504043+036
40	.2159625759-052	40	-.5509919069-053	40	-.3351656219+051	40	-.8774303044+050
41	.4157999844-054	41	-.1088586663-054	41	-.1693253333+053	41	-.4546126420+052
50	.5492088835-070	50	-.1773451308-070	50	-.1018755953+069	50	-.33569049155+068
51	.8516190076-072	51	-.2808687290-072	51	-.6415739518+070	51	-.2160606831+070
60	.1930752381-088	60	-.7596944591-089	60	-.2311641653+087	60	-.9262771651+086
61	.2505786619-090	61	-.1004090031-090	61	-.1743421134+089	61	-.7112728152+088
70	.1301198186-107	70	-.6084229760-108	70	-.2787837932+106	70	-.1324840707+106
71	.1451809570-109	71	-.6899396980-110	71	-.2449067625+108	71	-.1182674044+108
80	.2123365815-127	80	-.1159711440-127	80	-.1403587132+126	80	-.7780160718+125
81	.2077367043-129	81	-.1151505926-129	81	-.1407269837+128	81	-.7915975787+127
90	.9996940192-148	90	-.6301123946-148	90	-.2462559120+146	90	-.1573747834+146
91	.8706714921-150	91	-.5564236489-150	91	-.2774313721+148	91	-.1797503773+148
99	.1963544130-166	99	-.1397830390-166	99	-.1056906964+165	99	-.7623983291+164
100	.1556162579-168	100	-.1122541335-168	100	-.1308464232+167	100	-.95563499740+166

REAL X = .1600000000+001		IMAGINARY X = -.1000000000+000		SECOND KIND		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND				REAL BESSEL					
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	.6253029329+000	.4090944659-001	0	.2216553716-001		0	.6091223581+000		-.6119217844-001
1	.4098673846+000	-.1139240886-001	1	-.1434265558-001		1	-.1150704190+001		-.7814327219-001
2	.3350819455-001	-.5717416142-002	2	-.1446964886-002		2	-.2942513228+001		-.1558601227+000
3	.6047213604-002	-.1446964886-002	3	-.2723901281-003		3	-.1150086016+002		-.6303968354+000
4	.8817448607-003	-.4103001991-004	4	-.5161552819-005		4	-.6030918077+002		-.3395036304+001
5	.1077819954-003	-.5579254182-006	5	-.5288593580-007		5	-.2707553141+006		-.2241941325+002
6	.1133083211-004	-.4464277326-008	6	-.4464277326-008		6	-.3034506661+007		-.1759519567+003
7	.1043802221-005	-.3396555984-009	7	-.2351876982-010		7	-.3740475523+008		-.1599872782+004
8	.8546891090-007	-.1493982798-011	8	-.8764691040-013		8	-.1856073537+013		-.1652866443+005
9	.6290451556-008	-.4775920156-014	9	-.2429023426-015		9	-.5879528830+015		-.1911283071+006
10	.4198652416-009	-.1157997173-016	10	-.5194023088-018		10	-.1113047339+017		-.2444457964+007
11	.2559854759-010	-.2199132095-019	11	-.8814981680-021		11	-.2167547362+018		-.3424710187+008
12	.1433913292-011	-.7404917630-036	12	-.1845449901-037		12	-.4281137264+019		-.5214171319+009
13	.7414025403-013	-.1450971819-052	13	-.2566297873-054		13	-.2067051343+036		-.8563441236+010
14	.3551232575-014	-.1411348142-071	14	-.3981077349-073		14	-.9713553361+068		-.1511601551+012
15	.1579904124-015	.3981077349-073	15	.1319701651-088		15	-.6090912573+070		-.2847667174+013
16	.6538437917-017	.1319701651-088	16	.1873125362-090		16	-.1742505474+087		-.5704655183+014
17	.2517761156-018	.1873125362-090	17	.1547793465-107		17	-.1248116502+089		-.1210600524+016
18	.9007447048-020	.1547793465-107	18	.1770821306-109		18	-.7484245985+105		-.2712251160+017
19	.2981441334-021	.1770821306-109	19	.2713342582-127		19	-.5150469412+107		-.6395813983+018
20	-.2284336847-036	.2713342582-127	20	.2615749436-129		20	-.4609891495+125		-.1583094081+020
31	-.6982668647-038	.2615749436-129	31	.8690259050-148		31	-.5433015296+127		-.1236023829+035
40	-.1921516375-052	.8690259050-148	40	.6994576483-150		40	-.2017990954+146		-.4579650153+036
41	-.6354684982-070	.6994576483-150	41	.3044067368-167		41	-.2371858656+148		-.1766029391+051
50	-.9887377740-072	.3044067368-167	50	.9793179308-170		50	-.1073499302+165		-.8060441022+052
51	-.1919781630-088	.9793179308-170	51			51	-.1333385529+167		-.3902094995+067
60	-.2390341612-090		60			60			-.6271352858+069
70	-.5548215247-108		61			61			-.1365284798+087
71	-.512577322-110		62			62			-.1110350323+089
80	.7806274492-128		70			70			-.2585148970+106
81	.9328423900-130		71			71			-.2310067280+108
90	.1105128317-147		80			80			-.1292792489+126
91	.1013803141-149		81			81			-.1266798589+128
99	.2901835193-166		90			90			-.1392367725+146
100	.2325209267-168		91			91			-.1426728291+148
			99			99			-.4523883229+163
			100			100			-.2708535792+165

REAL X = .1600000000+001		IMAGINARY X = -.5000000000+000			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6390834062+000	.2092233982+000	0	.1114300282+000	-.2907238112+000
1	.4380925730+000	-.5787714212-001	1	-.5239054877+000	-.3549326807+000
2	.1401550506+000	.7423102192-001	2	-.8168917080+000	-.5952317400+000
3	.2696719905-001	-.2876352263-001	3	-.1272199250+001	-.2066449237+001
4	.3156447138-002	-.6824984072-002	4	-.1679926538+001	-.9225739376+001
5	.1378782153-003	-.1156576124-002	5	.7437638765+001	-.4790163490+002
6	-.2910718319-004	-.1491830458-003	6	.1420220740+003	-.2762410795+003
7	-.8248184322-005	-.1502673818-004	7	.1682820779+004	-.1668351380+004
8	-.1232990246-005	-.1173928861-005	8	.18688371958+005	-.9481508844+004
9	-.1357798697-006	-.6624477779-007	9	.2078509863+006	-.3359336538+005
10	-.1198578584-007	-.1782885176-008	10	.2343525161+007	.3487505701+006
11	-.8756853812-009	.1395488842-009	11	.2651121108+008	.1296065150+008
12	-.5337223951-010	.2666348764-010	12	.2918077473+009	.2778828873+009
13	-.2671620905-011	.2581547007-011	13	.2891201886+010	.5240744806+010
14	-.1028166493-012	.1891630560-012	14	.1897860741+011	.9418169045+011
15	-.2242736598-014	.1145099325-013	15	-.1754987207+012	.1647862545+013
16	.6571332317-016	.5902708066-015	16	-.1220638288+014	.2802459128+014
17	.1148931188-016	.2607736064-016	17	-.3937400785+015	.4532607148+015
18	.8516783039-018	.9730204080-018	18	-.1065736903+017	.6552811229+016
19	.4751304401-019	.2899408049-019	19	-.2672728984+018	.6743467442+017
20	.2211153951-020	.5507595104-021	20	-.6392476088+019	-.3638118273+018
30	-.2782120457-035	-.1018510005-035	30	.3301038163+034	-.1616014639+033
31	-.7878636591-037	-.3757903966-038	31	.1163211176+036	.3024927610+035
40	.1287997456-051	.6391277738-052	40	-.5061677708+036	.8076165140+049
41	.2868946319-053	.4556496204-054	41	-.2449922163+052	-.3575336451+051
50	-.4987504887-069	-.3207317729-069	50	.9607016655+067	-.2647629630+067
51	-.9306897787-071	-.2560291719-071	51	.5999289734+069	.2048188714+068
60	.2633915675-087	.2142910348-087	60	-.1348646910+086	.5391402379+085
61	.4298158054-089	.1716638742-089	61	-.1045094073+088	.8095412182+086
70	-.2622713912-106	-.2672515180-106	70	.9960688704+104	-.5339542877+104
71	-.3869542063-108	-.2073126255-108	71	.9335590480+106	-.1786828728+106
80	.6190953874-126	.7912456294-126	80	-.3035883927+124	.2095278991+124
81	.8505223447-128	.5867760594-128	81	-.3383083016+126	.1050779806+126
90	-.4097252847-146	-.6656936170-146	90	.3180665038+144	-.2768795885+144
91	-.5401723369-148	-.4700869510-148	91	.4169531908+146	-.1828820577+146
99	.3298662556-165	.2401727601-164	99	-.5259688087+162	.1119272765+163
100	.8601452391-167	.1829836548-166	100	-.9922850126+164	.1081897702+165

REAL X = .1600000000+001		IMAGINARY X = -.1000000000+001		SECOND KIND	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL
0	.6835845389+000	0	.4486874077+000	0	.3502223706+000
1	.5314155881+000	1	.1216231847+000	1	-.3814344354+000
2	.1354223087+000	2	-.1648515994+000	2	-.37411464385+000
3	.4437351804+002	3	-.5862997584+001	3	.3703275821+000
4	-.6178440384+002	4	.1087712725+001	4	.4038489441+001
5	-.1930440639+002	5	-.9870454825+003	5	.2274023801+002
6	-.3154514522+003	6	.3250716379+004	6	.1064059130+003
7	-.3135243280+004	7	.2504551839+004	7	.3210219644+003
8	-.142132910+005	8	.4236080425+004	8	-.1450429702+004
9	.1054152786+006	9	.4334501734+006	9	-.4430299957+005
10	.2895065562+007	10	.2790147494+007	10	-.6164020404+006
11	.3239512145+008	11	.6659294115+009	11	-.6598779009+007
12	.2340832759+009	12	-.8827784142+010	12	-.5234596631+008
13	.1056568436+010	13	-.1397204055+010	13	-.109843456+009
14	.9724639306+013	14	-.1137516482+011	14	.7213631904+010
15	-.3191733481+013	15	-.6184129116+013	15	.2110807211+012
16	-.3431724788+014	16	-.2024366541+014	16	.4041658502+013
17	-.2149609627+015	17	.6046392159+017	17	.5899416348+014
18	-.9128481268+017	18	.6098075895+017	18	.5427555121+015
19	-.2173797264+018	19	.4851488595+018	19	-.3399717572+016
20	.3396872101+020	20	.2424980919+019	20	-.3382639779+018
30	-.5382209724+034	30	.8854202752+034	30	-.8969408729+030
31	.4096163869+037	31	.3104154558+035	31	-.1463902788+034
40	-.1548575885+049	40	.5365633061+050	40	.2510462387+048
41	-.2337946504+051	41	.2901796286+051	41	.2061327742+049
50	-.2062790464+066	50	-.7762149285+067	50	.2335069354+065
51	.3958275883+068	51	.7982250347+069	51	.9265811793+066
60	-.2031976100+084	60	-.3580182247+084	60	.9357871087+082
61	-.5555127086+086	61	-.3004282872+086	61	.6810944572+084
70	.2638991552+103	70	-.1457304879+102	70	.9395119326+100
71	-.7241571741+105	71	-.1815120532+104	71	.1529434805+103
80	.9950785703+122	80	-.8310772102+122	80	-.7906458002+119
81	.4667582566+124	81	-.1426397224+123	81	.5194856093+121
90	.3291427827+141	90	.9467752102+145	90	-.7547088756+139
91	.2878231100+143	91	-.1798121580+143	91	-.3742853841+141
99	.9182796787+160	99	.2813331601+159	99	-.6901909441+157
100	.2130857625+161	100	.1782513395+161	100	-.94016135692+159
					IMAGINARY BESSEL
					-.5152985755+000
					-.5819052027+000
					-.5907262220+000
					-.1271056024+001
					-.2679929508+001
					.6405560414+000
					.7611150380+002
					.8326167888+003
					.6889656024+004
					.4488124246+005
					.1399173043+006
					-.2360392879+007
					-.6717204515+008
					-.1119979765+010
					-.1435668279+011
					-.1272380978+012
					.7966362202+011
					.3877357793+014
					.1189840585+016
					.2538833783+017
					.4065751299+018
					.8391746747+032
					.2282999071+034
					.3106808725+048
					.1701907667+050
					.4686445641+064
					.8753708723+066
					-.5068666312+082
					.4256497033+083
					-.2358177161+101
					-.1121946298+103
					-.2413197924+120
					-.2103553420+122
					-.4711862162+139
					-.7670164444+141
					.5776429615+157
					.1307425416+159

REAL X = .1600000000+001		IMAGINARY X = -.3000000000+001		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1316941107+001	.2652087802+001	0	.2639374004+001	.1309675828+001
1	.2133391509+001	-.6008381291+000	1	-.6117485556+000	-.2148399161+001
2	.3667674853-001	-.1240625815+001	2	-.1220758140+001	-.5866785452-001
3	-.4982010929+000	-.2101355121+000	3	-.1569406575+000	.5237698410+000
4	-.1376288667+000	.1319977279+000	4	.1172199028+000	.2810267136+000
5	.1846109869-001	.5311024213-001	5	-.3534187429+000	.1000815475+000
6	.1412344691-001	.1562524576-002	6	-.9409968010+000	-.1137547758+001
7	.1679838784-002	-.2650472190-002	7	.2498023338+001	-.5321523469+001
8	-.3183102807-003	-.5260701870-003	8	.2684247744+002	-.1864585616+000
9	-.1079062671-003	.8349923541-005	9	.6148335842+002	.1233054920+003
10	-.6628833537-005	.1596468980-004	10	-.4731503451+003	.6276119246+003
11	.1634271903-005	.1926639124-005	11	-.4857106442+004	-.8776922633+003
12	.3315244105-006	-.7670700766-007	12	-.9750098003+004	-.3241302886+005
13	.1053795801-007	-.4116762884-007	13	.1814118854+006	-.1745356732+006
14	-.3685507205-008	-.3298785371-008	14	.1910648279+007	.6513076339+006
15	-.5044984070-009	.1898807392-009	15	.2585916490+007	.1716822724+008
16	-.6709899967-011	.5481762116-010	16	-.1289334576+009	.9381532772+008
17	.4392246707-011	.3033646671-011	17	-.1394921903+010	-.6928570678+009
18	.4324704829-012	-.2267805198-012	18	-.3352217721+009	-.1612035474+011
19	.4484010295-016	-.4239954084-013	19	.1544670886+012	-.8508003371+011
20	-.3098138474-014	.1635142494-014	20	.1695240955+013	.1120242783+013
30	.3092915483-026	-.4174782982-026	30	.3922984474+024	-.8374496136+024
31	-.1206493693-027	-.2526279150-027	31	.1660134616+026	-.8177626226+024
40	.2021920301-039	.2109171711-039	40	-.1194919097+038	-.3325138859+037
41	.1150625414-040	-.3254927898-041	41	-.6369901625+038	-.2888460545+039
50	-.1169070262-053	.7798836839-054	50	-.1993287906+051	.2059914114+052
51	.4592911122-056	.4613372553-055	51	-.5683822289+053	.2353216343+053
60	-.3742237268-069	-.8641266726-069	60	.2570205487+067	-.2127421619+066
61	-.2593465061-070	-.2096205532-071	61	.4969553611+068	.7721277483+068
70	.1186312366-084	-.2739536885-085	70	-.4467260847+082	-.1652834351+083
71	.7510879718-087	-.2794768009-086	71	.5180270246+084	-.4859311075+084
80	.1682205176-102	.3831077385-101	80	-.4294014250+099	.2057409531+099
81	.7215688824-103	.3447558301-103	81	-.1816450326+101	-.1336674582+101
90	-.3471004154-118	-.4894475116-119	90	.2732360659+116	.3742551336+116
91	-.3834909406-120	.5262324282-120	91	-.1074326045+118	.2221157128+118
99	.6216473388-134	-.1035346242-134	99	-.7495101899+131	-.2221415829+132
100	.3400230909-136	-.101010167978-135	100	.9411786999+133	-.9988580369+133

REAL X = .1600000000+001		IMAGINARY X = -.1000000000+002	
N	FIRST KIND	SECOND KIND	N
0	REAL BESSEL	REAL BESSEL	0
0	.1403846302+003	.1078392150+004	0
1	-.9754347932+003	-.1098729899+003	1
2	-.6259332064+002	-.7982083219+003	2
3	-.5911751449+003	.1709478582+002	3
4	-.1363324556+002	.3965819710+003	4
5	.2412463605+003	.2662389868+002	5
6	.2647750345+002	-.332660558+003	6
7	-.6695502543+002	-.2008975780+002	7
8	-.1276316004+002	.3063922269+002	8
9	.1278355694+002	.7059820690+001	9
10	.3473516906+001	-.4864121583+001	10
11	-.168589958+001	-.1541060306+001	11
12	-.6224760335+000	.5303851399+000	12
13	.1502501007+000	.2305727590+000	13
14	.7876062995+001	-.3769110345+001	14
15	-.8050508355+002	-.2492030696+001	15
16	-.7329370768+002	.1305526083+002	16
17	.7649914988+004	.2009224895+002	17
18	.5143867498+003	.5261838401+004	18
19	.3058834525+004	-.1231279202+003	19
20	-.2756341099+004	-.1121557174+004	20
30	-.5131484339+012	.1686005700+011	30
31	.2496571691+012	.1196114109+012	31
40	.4451391168+020	.1151817278+020	40
41	.2193423431+021	-.5081408347+021	41
50	.2524989739+030	-.1065213005+029	50
51	-.9873123113+031	-.4041294844+031	51
60	-.3661903219+040	-.8335133841+041	60
61	-.1140940245+041	.2853095023+041	61
70	-.5574273329+052	.2473451519+051	70
71	.1660555835+052	.6609262530+053	71
80	.4117102827+063	.9373509578+064	80
81	.9728147851+065	-.2426206898+064	81
90	.4671762382+076	-.2004392562+075	90
91	-.1051833292+076	-.4283156761+077	91
99	.5225323389+088	-.6658075966+087	99
100	-.3263716466+088	-.7855427337+089	100

IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	SECOND KIND	N
0	IMAGINARY BESSEL	IMAGINARY BESSEL	0
0	-.1403846293+003	.1078392146+004	0
1	-.9754347980+003	-.1098729909+003	1
2	.6259331929+002	.7982083161+003	2
3	.5911751524+003	-.1709478791+002	3
4	.1363324917+002	.3965819604+003	4
5	-.2412463769+003	.2662389192+002	5
6	-.2647751712+002	-.1332660287+003	6
7	.6695507340+002	-.2008972823+002	7
8	.1276322819+002	.3063913235+002	8
9	.1278373655+002	.7059654202+001	9
10	-.3473946722+001	-.4863747877+001	10
11	.1686703942+001	-.1539891303+001	11
12	.6258159245+000	.5286278826+000	12
13	-.1540439615+000	.2205770884+000	13
14	-.1100094236+000	-.3018014643+001	14
15	.1893592991+001	.7683295494+001	15
16	.3514041014+000	.1010191217+001	16
17	.1944783405+000	-.1202320206+001	17
18	-.4348296507+001	-.1330278889+001	18
19	-.7503588539+001	.1612155965+002	19
20	.6108761338+002	.3967256489+002	20
30	.3954066552+009	-.7790331375+009	30
31	-.4395646625+010	.3138973794+010	31
40	-.2350653917+018	-.1052746955+018	40
41	-.1137069814+019	.1754821500+019	41
50	-.3392376245+027	.8081228301+027	50
51	.7509959190+028	.4635378678+028	51
60	.1986176488+038	-.8088190524+037	60
61	.1333305637+039	.2208256218+039	61
70	.1023408497+049	-.2536663857+049	70
71	-.3281621792+050	-.1969426219+050	71
80	-.1336197922+061	-.5413708461+060	80
81	-.1187527327+062	.1970515702+062	81
90	-.1000785598+073	.2437627859+073	90
91	.4033847516+074	.2457939305+074	91
99	-.1747218199+084	.7184043481+084	99
100	.1343475795+086	.5623537338+085	100

REAL X = .1600000000+001		IMAGINARY X = -.1000000000+003	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	-.1774555786+040	0	.1343769397+042
1	.1330332304+042	1	.1778309577+040
2	.1785059760+040	2	-.1303861109+042
3	-.1265141657+042	3	-.1793361625+040
4	-.1801216176+040	4	.1215303778+042
5	.1155766379+042	5	.1806252613+040
6	.1805942061+040	6	-.1088170232+042
7	-.1014302900+042	7	-.1797821711+040
8	-.1779708217+040	8	.9360205999+041
9	.8551717278+041	9	.1749881191+040
10	.1707221552+040	10	-.7735263737+041
11	-.6927154155+041	11	-.1651294764+040
12	-.1582374990+040	12	.6141818527+041
13	.5391459711+041	13	.1501412128+040
14	.1409948916+040	14	-.4685848523+041
15	-.4032257379+041	15	-.1309999315+040
16	-.1203901842+040	16	.3435519061+041
17	.2898190750+041	17	.1094162368+040
18	.9833001697+039	18	-.2420799335+041
19	-.2002142270+041	19	-.8737090619+039
20	-.7675425472+039	20	.1639618638+041
30	.1127123489+039	30	-.1297923575+040
31	-.9548016507+039	31	-.8751408993+038
40	-.5548393823+037	40	.3921957652+038
41	.2624066202+038	41	.3876133881+037
50	.9782196621+035	50	-.4652611026+036
51	-.2839964431+036	51	-.6188475067+035
60	-.6565521887+033	60	.2238265707+034
61	.1250700559+034	61	.3782836714+033
70	.1771857039+031	70	-.4522034512+031
71	-.2321413553+031	71	-.9346201524+030
80	-.2021533070+028	80	.3976942685+028
81	.1882353953+028	81	.9809135156+027
90	.1021430137+025	90	-.1577377810+025
91	-.6907588067+024	91	-.4579744851+024
99	-.7127219190+021	99	-.5695068131+021
100	-.2386670936+021	100	.2918295675+021

IMAGINARY BESSEL	
0	.1774555786+040
1	-.1330332304+042
2	-.1785059760+040
3	.1265141657+042
4	.1801216176+040
5	-.1155766379+042
6	-.1805942061+040
7	.1014302900+042
8	.1779708217+040
9	-.8551717278+041
10	-.1707221552+040
11	.6927154155+041
12	.1582374990+040
13	-.5391459711+041
14	-.1409948916+040
15	.4032257379+041
16	.1203901842+040
17	-.2898190750+041
18	-.9833001697+039
19	.2002142270+041
20	.7675425472+039
30	-.1127123489+039
31	.9548016507+039
40	.5548393826+037
41	-.2624066205+038
50	-.9782231295+035
51	.2839990529+036
60	.7482251204+033
61	-.1795527298+034
70	-.5416425450+035
71	.2632847974+036
80	.6952678133+038
81	-.2828049712+039
90	-.1879876740+042
91	.6480413004+042
99	.5303861492+045
100	-.1036669461+046

REAL X = .2000000000+001		IMAGINARY X = .0000000000		SECOND KIND	
FIRST KIND		IMAGINARY BESSEL		REAL BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4546487134+000	.0000000000	0	.2080734183+000	.0000000000
1	.4353977753+000	.0000000000	1	-.3506120043+000	.0000000000
2	.1984479491+000	.0000000000	2	-.7339914247+000	.0000000000
3	.6072209766-001	.0000000000	3	-.1484366557+001	.0000000000
4	.1407939276-001	.0000000000	4	-.4461291526+001	.0000000000
5	.2635169770-002	.0000000000	5	-.1859144531+002	.0000000000
6	.4140409734-003	.0000000000	6	-.9779165769+002	.0000000000
7	.5609655703-004	.0000000000	7	-.6170543296+003	.0000000000
8	.6683204324-005	.0000000000	8	-.4530115815+004	.0000000000
9	.7106797192-006	.0000000000	9	-.3788893009+005	.0000000000
10	.6825308633-007	.0000000000	10	-.3554147201+006	.0000000000
11	.5976871612-008	.0000000000	11	-.3693965631+007	.0000000000
12	.4810148901-009	.0000000000	12	-.4212519003+008	.0000000000
13	.3581451402-010	.0000000000	13	-.5228709098+009	.0000000000
14	.2481049119-011	.0000000000	14	-.7016632092+010	.0000000000
15	.1606982163-012	.0000000000	15	-.1012162944+012	.0000000000
16	.9773237728-014	.0000000000	16	-.1561866932+013	.0000000000
17	.5602059151-015	.0000000000	17	-.2566695860+014	.0000000000
18	.3036578644-016	.0000000000	18	-.4476558894+015	.0000000000
19	.1531133992-017	.0000000000	19	-.8255964368+016	.0000000000
20	.7632641101-019	.0000000000	20	-.1605436493+018	.0000000000
30	.5836617888-033	.0000000000	30	-.1407393871+032	.0000000000
31	.1854707915-034	.0000000000	31	-.4287774791+033	.0000000000
40	.1660978779-048	.0000000000	40	-.3720929322+047	.0000000000
41	.4004630253-050	.0000000000	41	-.1505033748+049	.0000000000
50	.4011575290-065	.0000000000	50	-.1235021944+064	.0000000000
51	.7792349663-067	.0000000000	51	-.6234364785+065	.0000000000
60	.1344412351-082	.0000000000	60	-.3075315225+081	.0000000000
61	.2186605360-084	.0000000000	61	-.1860048703+083	.0000000000
70	.8673626016-101	.0000000000	70	-.4090016522+099	.0000000000
71	.1213328659-102	.0000000000	71	-.2882873032+101	.0000000000
80	.1361180593-119	.0000000000	80	-.2282246122+118	.0000000000
81	.1670408709-121	.0000000000	81	-.1836921007+120	.0000000000
90	.6193531370-139	.0000000000	90	-.4461276886+137	.0000000000
91	.6769686681-141	.0000000000	91	-.4036957052+139	.0000000000
99	.9413748726-157	.0000000000	99	-.26669574755+155	.0000000000
100	.9367832591-159	.0000000000	100	-.2655955830+157	.0000000000

REAL X = .2000000000+001		IMAGINARY X = -.1000000000-002	
N	FIRST KIND	N	SECOND KIND
0	REAL BESSEL	0	REAL BESSEL
0	.4546487230+000	0	.2080736976+000
1	.4353978935+000	1	-.3506118126+000
2	.1984479683+000	2	-.7503746380-003
3	.6072207544-001	3	-.2234739150-002
4	.1407937737-001	4	-.9668846703-002
5	.2635164293-002	5	-.5131293261-001
6	.4140395997-003	6	-.3236784372+000
7	.5609628723-004	7	-.2370417156+001
8	.6683160528-005	8	-.1976837946+002
9	.7106736443-006	9	-.1849135480+003
10	.682527194-007	10	-.1916879886+004
11	.5976792178-008	11	-.2180821728+005
12	.4810071760-009	12	-.2701174507+006
13	.3581383230-010	13	-.3617935598+007
14	.2480993836-011	14	-.5210128793+008
15	.1606940737-012	15	-.8027196217+009
16	.9772949138-014	16	-.1317446507+011
17	.5601871331-015	17	-.2294608127+012
18	.3036463935-016	18	-.4226988092+013
19	.1561067997-017	19	-.8211042079+014
20	.7632282191-019	20	-.1677417266+016
30	.5835985991-033	30	-.2176588575+030
31	.1854493208-034	31	-.6846046805+031
40	.1660655708-048	40	-.7617906825+045
41	.4003811284-050	41	-.3158701443+047
50	.4010348770-065	50	-.3146449103+062
51	.7789869794-067	51	-.1619506950+064
60	.1343818151-082	60	-.9373017288+079
61	.2185606135-084	61	-.5762108479+081
70	.8668394086-101	70	-.1451049664+098
71	.1212575547-102	71	-.1037191972+100
80	.1360106069-119	80	-.9237606982+116
81	.1669056676-121	81	-.7526908135+118
90	.6187334148-139	90	-.2028659398+136
91	.6762760692-141	91	-.1855878253+138
99	.9402339075-157	99	-.1333943784+154
100	.9356246830-159	100	-.1340404022+156

REAL X = .2000000000+001		IMAGINARY X = -.1000000000-001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4546406760+000	.4354017242-002	0	.2081013523+000	-.3506056148-002
1	.4354096225+000	-.1925061758-003	1	-.3505928361+000	-.5586761116-002
2	.1984498742+000	-.1377278755-002	2	-.7339355599+000	-.7503256564-002
3	.6071987562-001	-.7700432202-003	3	-.1484106405+001	-.2234487650-001
4	.1407785306-001	-.2552338800-003	4	-.4459915977+001	-.9667306888-001
5	.2634622036-002	-.6173675140-004	5	-.1858283868+002	-.5130186589+000
6	.4139036074-003	-.1185946939-004	6	-.9772903400+002	-.3235874305+001
7	.5606957788-004	-.1896341557-005	7	-.6165348385+003	-.2369575271+002
8	.6678824940-005	-.2601801270-006	8	-.4525278089+004	-.1975973766+003
9	.7100722764-006	-.3129127155-007	9	-.3783896964+005	-.1848158876+004
10	.6817934575-007	-.3351931359-008	10	-.3548481616+006	-.1915677921+005
11	.5968929326-008	-.3238016925-009	11	-.3686967876+007	-.2179220571+006
12	.4802436133-009	-.2849015804-010	12	-.4203169223+008	-.2698879579+007
13	.3574635740-010	-.2301904533-011	13	-.5215273747+009	-.3614414440+008
14	.2475522221-011	-.1719574834-012	14	-.6995972187+010	-.5204370892+009
15	.1602840610-012	-.1194576821-013	15	-.1008798026+012	-.8017200299+010
16	.9744389353-014	-.7755907564-015	16	-.1555980561+013	-.1315610502+012
17	.5583285121-015	-.4726732769-016	17	-.2556130411+014	-.2291051048+013
18	.3025113388-016	-.2714275773-017	18	-.4455551966+015	-.4219738817+014
19	.1554536066-017	-.1473586539-018	19	-.8213100608+016	-.8195539396+015
20	.7596772464-019	-.7586370872-020	20	-.1596259984+018	-.1673946220+017
30	.5773526154-033	-.8706992772-034	30	-.1390055386+032	-.2167156948+031
31	.1833272931-034	-.2858742287-035	31	-.4231536750+033	-.6814522989+032
40	.1628765000-048	-.3297553725-049	40	-.3641340836+047	-.7561417793+046
41	.3922982737-050	-.8146993518-051	41	-.1472251598+049	-.3134163598+048
50	.3889491940-065	-.9923369736-066	50	-.1194386744+064	-.3110860015+063
51	.7545561620-067	-.1965385047-067	51	-.6021230491+065	-.1600485906+065
60	.1285395966-082	-.3973869915-083	60	-.2931300439+081	-.9222916630+080
61	.2087385426-084	-.6567844264-085	61	-.1770108996+083	-.5666868828+082
70	.8155327792-101	-.2975607307-101	70	-.3831794827+099	-.1419825913+099
71	.1138743338-102	-.4219554910-103	71	-.2695790583+101	-.1014257408+101
80	.1255051951-119	-.5304409845-120	80	-.2095610516+118	-.8980667827+117
81	.1536914432-121	-.6586407956-122	81	-.1683045458+119	-.7312486445+119
90	.5583531287-139	-.2696374530-139	90	-.4003060520+137	-.1957871180+137
91	.6088201571-141	-.2977272623-141	91	-.3613371638+139	-.1789725971+139
99	.8294527787-157	-.4476507363-157	99	-.2339980159+155	-.1276015853+155
100	.8231792927-159	-.4495951339-159	100	-.2321625847+157	-.1283106521+157

REAL X = .2000000000+001		IMAGINARY X = -.1000000000+000		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4547448879+000	.4357928247-001	0	.2108645255+000	-.3499745775-001
1	.4365831907+000	-.1921883254-002	1	-.3487027939+000	-.5577590664-001
2	.1986405758+000	-.1379283416-001	2	-.7284415807+000	-.7454525498-001
3	.6049964597-001	-.7706060323-002	3	-.1458564832+001	-.2209506121+000
4	.1392533089-001	-.2550081632-002	4	-.4325234783+001	-.9514657055+000
5	.2580411234-002	-.6153041668-003	5	-.1774290823+002	-.5020718716+001
6	.4003254330-003	-.1178084364-003	6	-.9164014935+002	-.3146075644+002
7	.5340727108-004	-.1875975040-004	7	-.5662333760+003	-.2286730123+003
8	.6247573983-005	-.2561041194-005	8	-.4058981238+004	-.1891117905+004
9	.6504060853-006	-.3062158918-006	9	-.3304734808+005	-.1752650826+005
10	.6096502818-007	-.3258282827-007	10	-.3008035777+006	-.1798538385+006
11	.5193696049-008	-.3123815987-008	11	-.3023326019+007	-.2023757464+007
12	.4052448895-009	-.2725419204-009	12	-.3321998313+008	-.2476339633+008
13	.2914666360-010	-.2181598250-010	13	-.3957486605+009	-.3275322960+009
14	.1942820441-011	-.1613107855-011	14	-.5075530757+010	-.4652354137+010
15	.1205679157-012	-.1108198286-012	15	-.6965137276+011	-.7063395877+011
16	.69930A3563-014	-.7108780289-014	16	-.1017223681+013	-.1141288967+013
17	.3803362208-015	-.4276355937-015	17	-.1573346817+014	-.1955078998+014
18	.1945011081-016	-.2421591685-016	18	-.2565675660+015	-.3538767751+015
19	.9373682964-018	-.1295188694-017	19	-.4392410127+016	-.6747576730+016
20	.4264805318-019	-.6562474230-019	20	-.7861935280+017	-.1351676655+018
20	.4554C48915-034	-.6042709130-033	30	-.3449228004+030	-.1353411355+032
31	.4851566031-036	-.1927433474-034	31	.1012886983+032	-.4118270166+033
40	-.7201723225-049	-.1590704452-048	40	.1616597381+047	-.3143740639+047
41	-.1928310030-050	-.3748266567-050	41	.7162215494+048	-.1236568491+049
50	-.3410714816-065	-.2569321230-065	50	.9591639349+063	-.6502119873+063
51	-.6874905593-067	-.4659301017-067	51	.4993594982+065	-.3032386040+065
60	-.1433687543-082	-.2104015419-083	60	.2835620933+081	-.2726160901+080
61	-.2348920670-084	-.2255537731-085	61	.1719627460+083	-.7885794360+081
70	-.8878787724-101	.3282287575-101	70	.3441605321+099	.1471400372+099
71	-.1219059998-102	.5212744763-103	71	.2368037639+101	.1155577457+101
80	-.9883835778-120	.1133888204-119	80	.1276065405+118	.1620505186+118
81	-.1143324331-121	.1452143371-121	81	.9594343504+119	.1352355479+120
90	-.1493616272-139	.6767358181-139	90	.6630653572+136	.3926466408+137
91	-.1262626961-141	.7478534655-141	91	.4212521342+138	.3574084447+139
99	.2454415451-157	.1036585464-156	99	-.6566615001+154	.2262845583+155
100	.2958307845-159	.1019314084-158	100	-.7639894658+156	.2213096034+157

REAL X = .2000000000+001		IMAGINARY X = -.5000000000+000		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.4570043990+000	0	.226771812+000	0	.2765720627+000	0	.1677722945+000
1	.4654356410+000	1	-.9217809366-002	1	-.3071149230+000	1	-.2690909595+000
2	.2033345562+000	2	-.7141915645-001	2	-.6151727919+000	2	-.3205143270+000
3	.5500987754-001	3	-.3921870213-001	3	-.9518126303+000	3	-.8469267464+000
4	.1017220682-001	4	-.1246961025-001	4	-.1822740905+001	4	-.3253207710+001
5	.1275526892-002	5	-.2823192867-002	5	-.3323458334+001	5	-.1486132569+002
6	.8406433069-004	6	-.4938827358-003	6	.3851260419+001	6	-.7797695369+002
7	-.5900919614-005	7	-.6963842268-004	7	.1461429807+003	7	-.4562839927+003
8	-.2826546766-005	8	-.8095988316-005	8	.1832953296+004	8	-.2884951853+004
9	-.5194778787-006	9	-.7825773787-006	9	.2028738709+005	9	-.1895742424+005
10	-.6890600885-007	10	-.6235997528-007	10	.2419355737+006	10	-.1212684466+006
11	-.7409799257-008	11	-.3924281257-008	11	.2472562680+007	11	-.6311487487+006
12	-.6755279449-009	12	-.1646433686-009	12	.2824773356+008	12	-.1952487503+005
13	-.5334312850-010	13	.4535524770-012	13	.3299111408+009	13	.8348301369+008
14	-.3684266279-011	14	.9632742797-012	14	.3898383071+010	14	.2108697911+010
15	-.2227353158-012	15	.1224586233-012	15	.4567717084+011	15	.4199440719+011
16	-.1166271966-013	16	.1085213257-013	16	.5092948594+012	16	.7771029241+012
17	-.5116689043-015	17	.7898178738-015	17	.4846384588+013	17	.1400321928+014
18	-.1695941794-016	18	.4976045171-016	18	.2165319543+014	18	.2498198571+015
19	-.2288095654-018	19	.2776054250-017	19	-.7152771831+015	19	.4430056437+016
20	.2289935760-019	20	.1384765182-018	20	-.3347523456+017	20	.777288532+017
30	.7220998824-033	30	-.1259685317-032	30	-.1498687195+031	30	-.5279133914+031
31	.1291574588-034	31	-.4576921950-034	31	-.5039841619+031	31	-.1621311001+033
40	-.5229334244-048	40	.1982163252-048	40	.8807464012+046	40	.6112294282+046
41	-.1141054704-049	41	.7933955099-050	41	.2772113824+048	41	.3168172543+048
50	.1731405042-064	50	.5875403670-065	50	-.2619725443+063	50	.2167871830+062
51	.3648486167-066	51	.2997960140-067	51	-.1270381057+065	51	-.2084236321+064
60	-.4360110500-082	60	-.7057239988-082	60	.3462128976+080	60	-.3375101916+080
61	-.9962110149-084	61	-.973852587-084	61	.2451392580+082	61	-.1428265528+082
70	-.9913644851-101	70	.77779526-100	70	-.5097398958+097	70	.4722166407+098
71	.1124395000-102	71	.2038725374-101	71	-.1121648098+100	71	.3048041534+100
80	.1134238167-118	80	-.1041084317-118	80	-.1078262797+117	80	-.1633739395+117
81	.1072380873-120	81	-.1625636341-120	81	-.5073061272+118	81	-.1441861902+119
90	-.9472441119-138	90	.4879397306-139	90	.2702939155+136	90	.8252382223+135
91	-.1022002543-139	91	.3122315890-140	91	.2126215881+138	91	.1278459149+138
99	.1199521878-155	99	.1465371580-155	99	-.1032669575+154	99	.7687899927+153
100	.1558274478-157	100	.1159722844-157	100	-.1146966658+156	100	.4780787714+155

REAL X = .2000000000+001		IMAGINARY X = -.1000000000+001		IMAGINARY BESSEL		N		REAL BESSEL		IMAGINARY BESSEL		SECOND KIND		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	.4634364484+000	.4762463537+000	.4762463537+000	0	.4705807342+000	.4705807342+000	.4705807342+000	0	.4705807342+000	.4705807342+000	.4705807342+000	.4705807342+000	.4705807342+000	.4705807342+000	.4705807342+000
1	.5607060428+000	-.1582751243-001	-.1582751243-001	1	-.2154014861+000	-.2154014861+000	-.2154014861+000	1	-.2154014861+000	-.2154014861+000	-.2154014861+000	-.2154014861+000	-.2154014861+000	-.2154014861+000	-.2154014861+000
2	.2189073104+000	-.1588157430+000	-.1588157430+000	2	-.4280211908+000	-.4280211908+000	-.4280211908+000	2	-.4280211908+000	-.4280211908+000	-.4280211908+000	-.4280211908+000	-.4280211908+000	-.4280211908+000	-.4280211908+000
3	.3592432091-001	-.8289666316-001	-.8289666316-001	3	-.2083306943+000	-.2083306943+000	-.2083306943+000	3	-.2083306943+000	-.2083306943+000	-.2083306943+000	-.2083306943+000	-.2083306943+000	-.2083306943+000	-.2083306943+000
4	-.2263883374-002	-.2300086461-001	-.2300086461-001	4	.9519637152+000	.9519637152+000	.9519637152+000	4	.9519637152+000	.9519637152+000	.9519637152+000	.9519637152+000	.9519637152+000	.9519637152+000	.9519637152+000
5	-.2672744772-002	-.3981439489-002	-.3981439489-002	5	.7368401543+001	.7368401543+001	.7368401543+001	5	.7368401543+001	.7368401543+001	.7368401543+001	.7368401543+001	.7368401543+001	.7368401543+001	.7368401543+001
6	-.7370267467-003	-.3975076434-003	-.3975076434-003	6	.4238443994+002	.4238443994+002	.4238443994+002	6	.4238443994+002	.4238443994+002	.4238443994+002	.4238443994+002	.4238443994+002	.4238443994+002	.4238443994+002
7	-.1262744381-003	-.1869798148-005	-.1869798148-005	7	.2222515878+003	.2222515878+003	.2222515878+003	7	.2222515878+003	.2222515878+003	.2222515878+003	.2222515878+003	.2222515878+003	.2222515878+003	.2222515878+003
8	-.1501048756-004	.7465540138-005	.7465540138-005	8	.1000967178+004	.1000967178+004	.1000967178+004	8	.1000967178+004	.1000967178+004	.1000967178+004	.1000967178+004	.1000967178+004	.1000967178+004	.1000967178+004
9	-.1179713747-005	.1599813388-005	.1599813388-005	9	.2832227151+004	.2832227151+004	.2832227151+004	9	.2832227151+004	.2832227151+004	.2832227151+004	.2832227151+004	.2832227151+004	.2832227151+004	.2832227151+004
10	-.3462779474-007	.2101293722-006	.2101293722-006	10	-.2815694879+005	-.2815694879+005	-.2815694879+005	10	-.2815694879+005	-.2815694879+005	-.2815694879+005	-.2815694879+005	-.2815694879+005	-.2815694879+005	-.2815694879+005
11	.6296908024-008	.1983660055-007	.1983660055-007	11	-.6478199775+006	-.6478199775+006	-.6478199775+006	11	-.6478199775+006	-.6478199775+006	-.6478199775+006	-.6478199775+006	-.6478199775+006	-.6478199775+006	-.6478199775+006
12	.1310986027-008	.1333129782-008	.1333129782-008	12	-.9095983373+007	-.9095983373+007	-.9095983373+007	12	-.9095983373+007	-.9095983373+007	-.9095983373+007	-.9095983373+007	-.9095983373+007	-.9095983373+007	-.9095983373+007
13	.1473033400-009	.4962739985-010	.4962739985-010	13	-.1065672513+009	-.1065672513+009	-.1065672513+009	13	-.1065672513+009	-.1065672513+009	-.1065672513+009	-.1065672513+009	-.1065672513+009	-.1065672513+009	-.1065672513+009
14	.1190208572-010	-.1715827167-011	-.1715827167-011	14	-.1068080853+010	-.1068080853+010	-.1068080853+010	14	-.1068080853+010	-.1068080853+010	-.1068080853+010	-.1068080853+010	-.1068080853+010	-.1068080853+010	-.1068080853+010
15	.7126518960-012	-.4988978180-012	-.4988978180-012	15	-.8071134314+010	-.8071134314+010	-.8071134314+010	15	-.8071134314+010	-.8071134314+010	-.8071134314+010	-.8071134314+010	-.8071134314+010	-.8071134314+010	-.8071134314+010
16	.2796426273-013	.5206402077-013	.5206402077-013	16	-.8461222069+010	-.8461222069+010	-.8461222069+010	16	-.8461222069+010	-.8461222069+010	-.8461222069+010	-.8461222069+010	-.8461222069+010	-.8461222069+010	-.8461222069+010
17	.9890915142-016	-.3783122214-014	-.3783122214-014	17	.1417157278+013	.1417157278+013	.1417157278+013	17	.1417157278+013	.1417157278+013	.1417157278+013	.1417157278+013	.1417157278+013	.1417157278+013	.1417157278+013
18	-.9767974376-016	-.2073249087-015	-.2073249087-015	18	.4142817444+014	.4142817444+014	.4142817444+014	18	.4142817444+014	.4142817444+014	.4142817444+014	.4142817444+014	.4142817444+014	.4142817444+014	.4142817444+014
19	-.1036503481-016	-.8116628249-017	-.8116628249-017	19	.8559827344+015	.8559827344+015	.8559827344+015	19	.8559827344+015	.8559827344+015	.8559827344+015	.8559827344+015	.8559827344+015	.8559827344+015	.8559827344+015
20	-.7050989950-018	-.1417635534-018	-.1417635534-018	20	.1470712391+017	.1470712391+017	.1470712391+017	20	.1470712391+017	.1470712391+017	.1470712391+017	.1470712391+017	.1470712391+017	.1470712391+017	.1470712391+017
30	.4290748997-032	-.1616133185-031	-.1616133185-031	30	.8809871761+029	.8809871761+029	.8809871761+029	30	.8809871761+029	.8809871761+029	.8809871761+029	.8809871761+029	.8809871761+029	.8809871761+029	.8809871761+029
31	-.1209721659-033	-.5814727098-033	-.5814727098-033	31	.7402707356+031	.7402707356+031	.7402707356+031	31	.7402707356+031	.7402707356+031	.7402707356+031	.7402707356+031	.7402707356+031	.7402707356+031	.7402707356+031
40	.1372232453-046	.4665891774-047	.4665891774-047	40	-.3778263769+045	-.3778263769+045	-.3778263769+045	40	-.3778263769+045	-.3778263769+045	-.3778263769+045	-.3778263769+045	-.3778263769+045	-.3778263769+045	-.3778263769+045
41	.3870083480-048	-.5314027556-049	-.5314027556-049	41	-.1140207081+047	-.1140207081+047	-.1140207081+047	41	-.1140207081+047	-.1140207081+047	-.1140207081+047	-.1140207081+047	-.1140207081+047	-.1140207081+047	-.1140207081+047
50	-.4145247272-063	.9832179907-063	.9832179907-063	50	-.2650377060+060	-.2650377060+060	-.2650377060+060	50	-.2650377060+060	-.2650377060+060	-.2650377060+060	-.2650377060+060	-.2650377060+060	-.2650377060+060	-.2650377060+060
51	.1505755891-065	.2312197870-064	.2312197870-064	51	.9444651097+062	.9444651097+062	.9444651097+062	51	.9444651097+062	.9444651097+062	.9444651097+062	.9444651097+062	.9444651097+062	.9444651097+062	.9444651097+062
60	-.9713358307-080	-.4955344159-080	-.4955344159-080	60	.3390718658+078	.3390718658+078	.3390718658+078	60	.3390718658+078	.3390718658+078	.3390718658+078	.3390718658+078	.3390718658+078	.3390718658+078	.3390718658+078
61	-.1982672211-081	-.1553010792-083	-.1553010792-083	61	.1647630211+080	.1647630211+080	.1647630211+080	61	.1647630211+080	.1647630211+080	.1647630211+080	.1647630211+080	.1647630211+080	.1647630211+080	.1647630211+080
70	.1113067533-097	-.1834432062-097	-.1834432062-097	70	-.1213075265+095	-.1213075265+095	-.1213075265+095	70	-.1213075265+095	-.1213075265+095	-.1213075265+095	-.1213075265+095	-.1213075265+095	-.1213075265+095	-.1213075265+095
71	.2733123444-100	-.3344544737-099	-.3344544737-099	71	.3472711744+097	.3472711744+097	.3472711744+097	71	.3472711744+097	.3472711744+097	.3472711744+097	.3472711744+097	.3472711744+097	.3472711744+097	.3472711744+097
80	.8362583570-116	.5964752669-116	.5964752669-116	80	-.2671889162+114	-.2671889162+114	-.2671889162+114	80	-.2671889162+114	-.2671889162+114	-.2671889162+114	-.2671889162+114	-.2671889162+114	-.2671889162+114	-.2671889162+114
81	.1392207426-117	.2886468400-118	.2886468400-118	81	-.1855908546+116	-.1855908546+116	-.1855908546+116	81	-.1855908546+116	-.1855908546+116	-.1855908546+116	-.1855908546+116	-.1855908546+116	-.1855908546+116	-.1855908546+116
90	-.9121623276-135	.1095914071-134	.1095914071-134	90	.3963759021+132	.3963759021+132	.3963759021+132	90	.3963759021+132	.3963759021+132	.3963759021+132	.3963759021+132	.3963759021+132	.3963759021+132	.3963759021+132
91	-.3978733627-137	.1696366984-136	.1696366984-136	91	-.3239400829+134	-.3239400829+134	-.3239400829+134	91	-.3239400829+134	-.3239400829+134	-.3239400829+134	-.3239400829+134	-.3239400829+134	-.3239400829+134	-.3239400829+134
99	-.1961506034-152	-.5579346603-152	-.5579346603-152	99	.2730306482+150	.2730306482+150	.2730306482+150	99	.2730306482+150	.2730306482+150	.2730306482+150	.2730306482+150	.2730306482+150	.2730306482+150	.2730306482+150
100	-.4728337873-154	-.4575587812-154	-.4575587812-154	100	.32253369884+152	.32253369884+152	.32253369884+152	100	.32253369884+152	.32253369884+152	.32253369884+152	.32253369884+152	.32253369884+152	.32253369884+152	.32253369884+152

REAL X = .2000000000+001		IMAGINARY X = -.3000000000+001	
N	FIRST KIND	IMAGINARY BESSEL	REAL BESSEL
0	.4463290318+000	.2753947028+001	.2746687313+001
1	.2179827080+001	.9210018742-001	.7652662656-001
2	.4959833370+000	-.1202328193+001	-.1197321542+001
3	-.4109996749+000	-.4446795627+000	-.3954652248+000
4	-.2202698471+000	.5951995875-001	.1187480666+000
5	-.1760772011-001	.6960829461-001	-.1007788326+000
6	.1377421370-001	.1358215647-001	-.1007754362+001
7	.4409678107-002	-.1121330571-002	-.1629882217+001
8	.2834954428-003	-.9055720312-003	.9348684714+001
9	-.1155997495-003	-.1349141586-003	.7949330278+002
10	-.2985570729-004	.4347127456-005	.2030088137+003
11	-.1923999421-005	.4273373550-005	-.1243354293+004
12	.3659574148-006	.5620435617-006	-.1623918608+005
13	.8896893016-007	-.3747657234-009	-.6573178990+005
14	.5940912272-008	-.9255408315-008	.3218438818+006
15	-.5232813011-009	-.1160181556-008	.6829433433+007
16	-.1368011911-009	-.2123918292-010	.4158584235+008
17	-.9503276078-011	.1055817216-010	-.1264257379+009
18	.3521601225-012	.1333649319-013	-.5071603321+010
19	.1205664323-012	.4027577858-013	-.4444034731+011
20	.8756464159-014	-.6896757252-014	.3918317205+011
30	-.1317306769-025	.2682781405-025	-.7537476374+023
31	.8625747306-027	.1474633410-026	-.2564971908+025
40	.9212290277-040	-.3029714337-038	.9166357969+036
41	-.1073408623-039	-.7609847212-040	.2370975893+038
50	.9907441320-053	.2432530728-052	-.1022894168+051
51	.9006668439-054	.1826867110-054	-.2080170932+052
60	-.2272004597-067	-.2209278115-067	.7069532152+065
61	-.9078317554-069	.1955596620-069	.8942114441+066
70	.6898970538-083	.2608027395-083	-.2169250409+081
71	.1511038242-084	-.1083189986-084	.3416419683+081
80	-.4176051799-099	.1959107837-100	.2124959591+097
81	-.4758996856-101	.7927013864-101	-.7855890636+098
90	.6179789790-116	-.3016174178-116	-.2991041632+113
91	.1804295596-118	-.1342582157-117	.8391583514+115
99	-.2081802324-131	-.2566015784-132	.4336295694+129
100	-.2453293108-133	.2852214315-133	-.9845918449+130

REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N
0	.4345829780+000	-.4345829780+000	0
1	-.2186955029+001	-.2186955029+001	1
2	-.5218009093+000	-.5218009093+000	2
3	.4040448585+000	.4040448585+000	3
4	.3180977016+000	.3180977016+000	4
5	.2830287127+000	.2830287127+000	5
6	-.9494922445-001	-.9494922445-001	6
7	-.3496190247+001	-.3496190247+001	7
8	-.1361508210+002	-.1361508210+002	8
9	.4563123254+001	.4563123254+001	9
10	.3755010007+003	.3755010007+003	10
11	.2192405899+004	.2192405899+004	11
12	.7829009372+003	.7829009372+003	12
13	-.9286886048+005	-.9286886048+005	13
14	-.7961054738+006	-.7961054738+006	14
15	-.1305108045+007	-.1305108045+007	15
16	.4342846013+008	.4342846013+008	16
17	.5384802435+009	.5384802435+009	17
18	.1834949584+010	.1834949584+010	18
19	-.3339707251+011	-.3339707251+011	19
20	-.6019105104+012	-.6019105104+012	20
30	.1316655475+024	.1316655475+024	30
31	.1663171106+024	.1663171106+024	31
40	-.6572337096+036	-.6572337096+036	40
41	.8995296918+037	.8995296918+037	41
50	.2111629837+050	.2111629837+050	50
51	-.2059541667+052	-.2059541667+052	51
60	.1505004156+065	.1505004156+065	60
61	.2255723304+067	.2255723304+067	61
70	-.1549177477+081	-.1549177477+081	70
71	-.1042136678+083	-.1042136678+083	71
80	.3528550759+097	.3528550759+097	80
81	.1663456647+099	.1663456647+099	81
90	-.2207471726+114	-.2207471726+114	90
91	-.7394331492+115	-.7394331492+115	91
99	.5032239224+129	.5032239224+129	99
100	.3532149620+131	.3532149620+131	100

REAL X = .2000000000+001		IMAGINARY X = -.1000000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2481020336+003	.1051050842+004	0	.1051050839+004	.2481020363+003
1	.9452170647+003	.2444585377+003	1	.2444585847+003	-.9452170686+003
2	.2321168871+003	-.7642886935+003	2	-.7642886890+003	-.2321168908+003
3	-.5554516460+003	-.2063532279+003	3	-.2063532227+003	.5554516517+003
4	-.1679976284+003	.3626486896+003	4	.3626486819+003	.1679976363+003
5	.2125445366+003	.1237367842+003	5	.1237367709+003	-.2125445477+003
6	.8548352778+002	-.1116668792+003	6	-.1116668626+003	-.8208355213+002
7	-.5244005567+002	-.4904909431+002	7	-.4904904639+002	.5244008143+002
8	-.2646658089+002	.2186340632+002	8	.2186336637+002	.26466668178+002
9	.8016566972+001	.1294060455+002	9	.1294037864+002	-.8016625050+001
10	.5754222050+001	-.2509457307+001	10	-.2509393792+001	-.5754756873+001
11	-.6255731204+000	-.2334937012+001	11	-.2333605528+001	.6255434631+000
12	-.8671148457+000	.9321768912+001	12	.9320868845+001	.8705811782+000
13	-.1539000041+001	.2953425221+000	13	.2859626424+000	.1850683524+001
14	.9236925932+001	.2017842704+001	14	.6625322832+002	-.1185688461+000
15	.1063685809+001	-.2652104157+001	15	.4835691616+001	-.6615731074+001
16	-.6974950790+002	-.4283028671+002	16	.61754025150+000	.2232697186+000
17	-.1472889730+002	.1670910289+002	17	-.6175269665+000	.9040267661+000
18	.3603269236+003	.4508393887+003	18	-.3677480947+001	-.1693158470+001
19	.1253283697+003	-.6818839915+004	19	.4024640425+001	-.1519212181+002
20	-.1062414949+004	-.3199930164+004	20	.5366641807+002	.5391468704+001
30	-.2146507918+011	.1095590984+012	30	.1175359365+009	.7020093685+009
31	-.4652762861+013	.3368721276+012	31	-.4099340175+010	.1510440769+010
40	-.1663151387+020	.5792382466+020	40	-.1723841553+018	.9162092181+017
41	.6508729732+021	.3318889843+021	41	-.9893787773+018	.1223614785+019
50	.1238154149+029	.9170172973+030	50	-.4616025443+028	-.4117366541+027
51	.1117172707+030	-.1019109822+030	51	.3152283227+028	-.5320725865+028
60	.4803658268+040	-.3018609072+040	60	.4944887171+037	-.1320454401+038
61	-.1673891892+041	-.4364822656+041	61	.1661574657+039	.2743615071+038
70	-.7368612812+052	-.4043406050+051	70	.1675576016+049	-.3533350877+047
71	-.2917242775+052	-.4444112769+054	71	.5001219599+049	.2274162858+050
80	-.7187953475+063	-.1501619027+063	80	.3254571882+060	.7562832364+060
81	-.1790600154+064	.4213188809+064	81	-.1075162484+062	.7399892526+061
90	-.2154642720+075	.3177840853+075	90	-.9817492570+072	.1002051030+073
91	.1498589672+076	.1518648089+076	91	-.2090174249+074	-.1366409183+074
99	-.9443991710+087	.9322465253+087	99	-.2023678900+084	.3091988425+084
100	.3695137214+088	.5609333344+088	100	-.6704468032+085	-.2702331567+085

REAL X = .2000000000+001		IMAGINARY X = -.1000000000+003	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	-.5346688749+041	0	.1232842378+042
1	.1220411992+042	1	.5295707938+041
2	.5195200578+041	2	-.1195927041+042
3	-.1160120237+042	3	-.5048006260+041
4	-.4858216616+041	4	.1114044657+042
5	.1059022178+042	5	.4630986377+041
6	.4372300969+041	6	-.9965803861+041
7	-.9283821854+041	7	-.4088715249+041
8	-.3787079236+041	8	.8561526148+041
9	.7816073438+041	9	.3474266747+041
10	.3156921696+041	10	-.7063869044+041
11	-.632000297+041	11	-.2841234654+041
12	-.2532759392+041	12	.5597785729+041
13	.4908454686+041	13	.2236275718+041
14	.1955701426+041	14	-.4260961805+041
15	-.3661931304+041	15	-.1694052772+041
16	-.1453449942+041	16	.3115718071+041
17	.2624566517+041	17	.1235161587+041
18	.1039680859+041	18	-.2188844408+041
19	-.1807327343+041	19	-.8668244528+040
20	.7158460101+040	20	.1477510048+041
30	.6260652896+039	30	-.1143377228+040
31	-.8387382536+039	31	-.4657899903+039
40	-.2134194086+038	40	.3341758702+038
41	.2226972913+038	41	.1446330666+038
50	.288304513+036	50	-.3785904103+036
51	-.2298442267+036	51	-.1786998409+036
60	-.1592314286+034	60	.1711573120+034
61	.9494498512+033	61	.9020349530+033
70	.3689533485+031	70	-.3179913071+031
71	-.1616353470+031	71	-.1920136438+031
80	-.3719582322+028	80	.2492163616+028
81	.1163354367+028	81	.1784713392+028
90	.1691303298+025	90	-.8376549086+024
91	-.3593447502+024	91	-.7508938144+024
99	-.3018566670+021	99	-.8657844664+021
100	-.3595318867+021	100	.1196574257+021

IMAGINARY BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	N	REAL BESSEL
0	.5346688749+041	0	.1232842378+042
1	.1220411992+042	1	.5295707938+041
2	.5195200578+041	2	-.1195927041+042
3	.1160120237+042	3	-.5048006260+041
4	.4858216616+041	4	.1114044657+042
5	.1059022178+042	5	.4630986377+041
6	.4372300969+041	6	-.9965803861+041
7	-.9283821854+041	7	-.4088715249+041
8	-.3787079236+041	8	.8561526148+041
9	.7816073438+041	9	.3474266747+041
10	.3156921696+041	10	-.7063869044+041
11	-.632000297+041	11	-.2841234654+041
12	-.2532759392+041	12	.5597785729+041
13	.4908454686+041	13	.2236275718+041
14	.1955701426+041	14	-.4260961805+041
15	-.3661931304+041	15	-.1694052772+041
16	-.1453449942+041	16	.3115718071+041
17	.2624566517+041	17	.1235161587+041
18	.1039680859+041	18	-.2188844408+041
19	-.1807327343+041	19	-.8668244528+040
20	.7158460101+040	20	.1477510048+041
30	.6260652896+039	30	-.1143377228+040
31	-.8387382536+039	31	-.4657899903+039
40	-.2134194086+038	40	.3341758702+038
41	.2226972913+038	41	.1446330666+038
50	.288304513+036	50	-.3785904103+036
51	-.2298442267+036	51	-.1786998409+036
60	-.1592314286+034	60	.1711573120+034
61	.9494498512+033	61	.9020349530+033
70	.3689533485+031	70	-.3179913071+031
71	-.1616353470+031	71	-.1920136438+031
80	-.3719582322+028	80	.2492163616+028
81	.1163354367+028	81	.1784713392+028
90	.1691303298+025	90	-.8376549086+024
91	-.3593447502+024	91	-.7508938144+024
99	-.3018566670+021	99	-.8657844664+021
100	-.3595318867+021	100	.1196574257+021

REAL X = .3000000000+001		IMAGINARY X = .0000000000		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.4704000269-001	0	.3299974989+000	0	.0000000000	0	.0000000000	0	.0000000000
1	.3456774998+000	1	.6295916360-001	1	.0000000000	1	.6295916360-001	1	.0000000000
2	.2986374971+000	2	-.2670383353+000	2	.0000000000	2	-.2670383353+000	2	.0000000000
3	.1520516620+000	3	-.5089230557+000	3	.0000000000	3	-.5089230557+000	3	.0000000000
4	.5614971433-001	4	-.9183407947+000	4	.0000000000	4	-.9183407947+000	4	.0000000000
5	.1639746096-001	5	-.2247023328+001	5	.0000000000	5	-.2247023328+001	5	.0000000000
6	.3974382510-002	6	-.7320736743+001	6	.0000000000	6	-.7320736743+001	6	.0000000000
7	.8248432532-003	7	-.2947616922+002	7	.0000000000	7	-.2947616922+002	7	.0000000000
8	.1498337563-003	8	-.1400601094+003	8	.0000000000	8	-.1400601094+003	8	.0000000000
9	.2421469897-004	9	-.7641977839+003	9	.0000000000	9	-.7641977839+003	9	.0000000000
10	.3526003893-005	10	-.4699859189+004	10	.0000000000	10	-.4699859189+004	10	.0000000000
11	.4673282793-006	11	-.3213481654+005	11	.0000000000	11	-.3213481654+005	11	.0000000000
12	.5684624784-007	12	-.2416670676+006	12	.0000000000	12	-.2416670676+006	12	.0000000000
13	.6390452741-008	13	-.1981757413+007	13	.0000000000	13	-.1981757413+007	13	.0000000000
14	.6678268289-009	14	-.1759414965+008	14	.0000000000	14	-.1759414965+008	14	.0000000000
15	.6520660515-010	15	-.1680950226+009	15	.0000000000	15	-.1680950226+009	15	.0000000000
16	.5974757643-011	16	-.1719387750+010	16	.0000000000	16	-.1719387750+010	16	.0000000000
17	.5157289240-012	17	-.1874517023+011	17	.0000000000	17	-.1874517023+011	17	.0000000000
18	.4207980399-013	18	-.2169742649+012	18	.0000000000	18	-.2169742649+012	18	.0000000000
19	.3255325114-014	19	-.2657270764+013	19	.0000000000	19	-.2657270764+013	19	.0000000000
20	.2394224927-015	20	-.3432754567+014	20	.0000000000	20	-.3432754567+014	20	.0000000000
30	.1075567526-027	30	-.5105339782+026	30	.0000000000	30	-.5105339782+026	30	.0000000000
31	.5133054971-029	31	-.1035482834+028	31	.0000000000	31	-.1035482834+028	31	.0000000000
40	.1782055445-041	40	-.2315623857+040	40	.0000000000	40	-.2315623857+040	40	.0000000000
41	.6449401738-043	41	-.6243377856+041	41	.0000000000	41	-.6243377856+041	41	.0000000000
50	.2496493438-056	50	-.1324326072+055	50	.0000000000	50	-.1324326072+055	50	.0000000000
51	.7277401060-058	51	-.4454547564+056	51	.0000000000	51	-.4454547564+056	51	.0000000000
60	.4843699349-072	60	-.5694438846+070	60	.0000000000	60	-.5694438846+070	60	.0000000000
61	.1182082428-073	61	-.2295320499+072	61	.0000000000	61	-.2295320499+072	61	.0000000000
70	.1807148676-088	70	-.1309360965+087	70	.0000000000	70	-.1309360965+087	70	.0000000000
71	.3792867984-090	71	-.6151169237+088	71	.0000000000	71	-.6151169237+088	71	.0000000000
80	.1638905469-105	80	-.1264156386+104	80	.0000000000	80	-.1264156386+104	80	.0000000000
81	.3017400491-107	81	-.6781919876+105	81	.0000000000	81	-.6781919876+105	81	.0000000000
90	.4307423096-123	90	-.4277809243+121	90	.0000000000	90	-.4277809243+121	90	.0000000000
91	.7063227512-125	91	-.2580227755+123	91	.0000000000	91	-.2580227755+123	91	.0000000000
99	.2519966196-139	99	-.6650104431+137	99	.0000000000	99	-.6650104431+137	99	.0000000000
100	.3761973541-141	100	-.4410222995+139	100	.0000000000	100	-.4410222995+139	100	.0000000000

REAL X = .3000000000+001 IMAGINARY X = -.1000000000-002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.4703991098-001	.3456775242-003	.1834116886-003	0	.3299976429+000	.6295920377-004
1	.3456775731+000	.4704001113-004	.9590195988-004	1	.6295928409-001	-.2880247246-003
2	.2986375625+000	.5846880790-004	.2335475106-004	2	.2670328298+000	-.3299974706-003
3	.1520516687+000	.7123920301-005	.1774799808-005	3	-.5080228343+000	-.4103255765-003
4	.5614969950-001	.3753417545-006	.6911803279-007	4	-.9183478927+000	-.1022557595-002
5	.1639746961-001	.1128600485-007	.2209941251-009	5	-.2247019515+001	-.3575694660-002
6	.3974377598-002	.2702407348-010	.3051310288-011	6	-.7320718377+001	-.1483467825-001
7	.8248416911-003	.3200572426-012	.3134952847-013	7	-.2947606850+002	-.7128227374-001
8	.1498333570-003	.2880271776-014	.2492222849-015	8	-.1400594889+003	-.3907034262+000
9	.2421461305-004	.1579357925-017	.2037752448-016	9	-.7641935426+003	-.2407260345+001
10	.3525987870-005	.1070418553-029	.5280332429-031	10	-.4699827328+004	-.1646857437+002
11	.4673256381-006	.2369559886-043	.8791139505-045	11	-.3213455567+005	-.1238390100+003
12	.5684585726-007	.4153364780-058	.1235021425-059	12	-.2416647556+006	-.1015085363+004
13	.6390400330-008	.9674966351-074	.2400572018-075	13	-.1981735364+007	-.9006495655+004
14	.6678203886-009	.4212522034-090	.8967802923-092	14	-.1759392452+008	-.8598857196+005
15	.6520587502-010	.8140541882-109	.4366899560-107	15	-.1680925724+009	-.8789078025+006
16	.5974680795-011	.1291333511-124	.2141049393-126	16	-.1719359436+010	-.9575043174+007
17	.5157213747-012	.2141049393-126	.8310664689-141	17	-.1874482402+011	-.1107508726+009
18	.4207910859-013	.2141049393-126	.1253210123-142	18	-.2169697991+012	-.1355414857+010
19	.3255264811-014	.2141049393-126	.1253210123-142	19	-.2657210162+013	-.1749801736+011
20	.2394175524-015	.2141049393-126	.1253210123-142	20	-.3432668265+014	-.2376333617+012
30	.1075516061-027	.2141049393-126	.1253210123-142	30	-.5105061064+026	-.5249386778+024
31	.5132792252-029	.2141049393-126	.1253210123-142	31	-.1035422621+028	-.1099387023+026
40	.1781901871-041	.2141049393-126	.1253210123-142	41	-.2315403520+040	-.3155774360+038
41	.6448617283-043	.2141049393-126	.1253210123-142	41	-.6242754647+041	-.8717268777+039
50	.2496154869-056	.2141049393-126	.1253210123-142	50	-.1324131635+055	-.2247223123+053
51	.7276373687-058	.2141049393-126	.1253210123-142	51	-.4453867813+056	-.7707565285+054
60	.4842749166-072	.2141049393-126	.1253210123-142	60	-.5693245321+070	-.1156349276+069
61	.1181842661-073	.2141049393-126	.1253210123-142	61	-.2294823600+072	-.4737614956+070
70	.1806664669-088	.2141049393-126	.1253210123-142	70	-.1308989789+087	-.3095692835+085
71	.3791822647-090	.2141049393-126	.1253210123-142	71	-.6149376307+088	-.1474823955+087
80	.1638330873-105	.2141049393-126	.1253210123-142	80	-.1263690582+104	-.3410406874+102
81	.3016315779-107	.2141049393-126	.1253210123-142	81	-.6779359159+105	-.1852221755+104
90	.4305508558-123	.2141049393-126	.1253210123-142	90	-.4275821910+121	-.1296679724+120
91	.7060017470-125	.2141049393-126	.1253210123-142	91	-.2579002692+123	-.7907141737+121
99	.2518609298-139	.2141049393-126	.1253210123-142	99	-.6646376704+137	-.2215266223+136
100	.3759906500-141	.2141049393-126	.1253210123-142	100	-.4407701355+139	-.1483821588+138

REAL X = .3000000000+001		IMAGINARY X = -.1000000000-001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.4703083204-001	0	.3456799429-002	0	.3300119001+000	0	.6296318001-003	0	.3300119001+000	0	.6296318001-003
1	.3456848291+000	1	.1834141373-002	1	.6297121282-001	1	.2880248679-002	1	.6297121282-001	1	.2880248679-002
2	.2986440424+000	2	.4704084742-003	2	.2670317862+000	2	.3299946766-002	2	.2670317862+000	2	.3299946766-002
3	.1520523246+000	3	.9590316511-003	3	.5080009121+000	3	.4103094929-002	3	.5080009121+000	3	.4103094929-002
4	.5614823190-001	4	.5846911307-003	4	.9182585924+000	4	.1022490933-001	4	.9182585924+000	4	.1022490933-001
5	.1639634640-001	5	.2335461711-003	5	.2246642009+001	5	.3575377613-001	5	.2246642009+001	5	.3575377613-001
6	.3973891338-002	6	.7123775259-004	6	.7318900259+001	6	.1483294660+000	6	.7318900259+001	6	.1483294660+000
7	.8246870389-003	7	.1774731195-004	7	.2946609755+002	7	.7127163750+000	7	.2946609755+002	7	.7127163750+000
8	.1497938266-003	8	.3753189964-005	8	.1399980720+003	8	.3906308983+001	8	.1399980720+003	8	.3906308983+001
9	.2420610655-004	9	.6911206939-006	9	.7637737109+003	9	.2406716722+002	9	.7637737109+003	9	.2406716722+002
10	.3524401682-005	10	.1128470025-006	10	.4696673605+004	10	.1646413224+003	10	.4696673605+004	10	.1646413224+003
11	.4670641765-006	11	.1656442139-007	11	.3210873464+005	11	.1237997117+004	11	.3210873464+005	11	.1237997117+004
12	.5680719279-007	12	.2209531896-008	12	.2414359195+006	12	.1014711189+005	12	.2414359195+006	12	.1014711189+005
13	.6385212097-008	13	.2701797807-009	13	.1979553045+007	13	.9002680787+005	13	.1979553045+007	13	.9002680787+005
14	.6671828726-009	14	.3050487831-010	14	.1757164276+008	14	.8594710878+006	14	.1757164276+008	14	.8594710878+006
15	.6513360185-010	15	.3199557215-011	15	.1678500792+009	15	.8784292482+007	15	.1678500792+009	15	.8784292482+007
16	.5967074074-011	16	.3133797564-012	16	.1715557338+010	16	.9569198116+008	16	.1715557338+010	16	.9569198116+008
17	.5149741243-012	17	.2879151933-013	17	.1871056217+011	17	.1106755541+010	17	.1871056217+011	17	.1106755541+010
18	.4201027864-013	18	.2491021218-014	18	.2165278692+012	18	.1354393742+011	18	.2165278692+012	18	.1354393742+011
19	.3249296247-014	19	.2036642959-015	19	.2651213353+013	19	.1748348857+012	19	.2651213353+013	19	.1748348857+012
20	.2389285926-015	20	.1578393813-016	20	.3424128667+014	20	.2374168958+013	20	.3424128667+014	20	.2374168958+013
30	.1070424574-027	30	.1068843291-028	30	.5077496349+026	30	.5239316953+025	30	.5077496349+026	30	.5239316953+025
31	.5106802448-029	31	.5272000707-030	31	.1029468060+028	31	.1097145231+027	31	.1029468060+028	31	.1097145231+027
40	.1766717770-041	40	.2363165442-042	40	.2293628164+040	40	.3145388774+039	40	.2293628164+040	40	.3145388774+039
41	.6391035059-043	41	.8766160690-044	41	.6181169512+041	41	.8687208958+040	41	.6181169512+041	41	.8687208958+040
50	.2462706171-056	50	.4135544742-057	50	.1304933199+055	50	.2235923932+054	50	.1304933199+055	50	.2235923932+054
51	.7174884173-058	51	.1229501205-058	51	.4386756794+056	51	.7667318101+055	51	.4386756794+056	51	.7667318101+055
60	.4748967909-072	60	.9614532642-073	60	.5575525786+070	60	.1148106360+070	60	.5575525786+070	60	.1148106360+070
61	.1158180591-073	61	.2385059614-074	61	.2245819395+072	61	.4702753097+071	61	.2245819395+072	61	.4702753097+071
70	.1758949402-088	70	.4176441736-089	70	.1272426494+087	70	.3066003370+086	70	.1272426494+087	70	.3066003370+086
71	.3688782249-090	71	.8886735897-091	71	.5972784971+088	71	.1460287160+088	71	.5972784971+088	71	.1460287160+088
80	.1581761018-105	80	.4317794406-106	80	.1217872546+104	80	.3368073603+103	80	.1217872546+104	80	.3368073603+103
81	.2909539787-107	81	.8046659916-108	81	.6527517510+105	81	.1828670848+105	81	.6527517510+105	81	.1828670848+105
90	.4117307802-123	90	.1272887827-123	90	.4080661578+121	90	.1276459657+121	90	.4080661578+121	90	.1276459657+121
91	.6744518916-125	91	.2109773266-125	91	.2458719905+123	91	.7781169647+122	91	.2458719905+123	91	.7781169647+122
99	.2385429812-139	99	.8166679003-140	99	.6280904480+137	99	.2173705436+137	99	.6280904480+137	99	.2173705436+137
100	.3557062917-141	100	.1231051948-141	100	.4160522951+139	100	.1455434967+139	100	.4160522951+139	100	.1455434967+139

REAL X = .3000000000+001		IMAGINARY X = -.1000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.4612232584-001	0	.3459218784-001	0	.3314376592+000	0	.3314376592+000	0	.6336077784-002	0	.6336077784-002
1	.3464107734+000	1	.1836591087-001	1	.6416395273-001	1	.6416395273-001	1	-.2880395262-001	1	-.2880395262-001
2	.2992924563+000	2	-.4712450897-002	2	-.2663858545+000	2	-.2663858545+000	2	-.3297163692-001	2	-.3297163692-001
3	.1521178693+000	3	-.9602374275-002	3	-.5058178927+000	3	-.5058178927+000	3	-.4087057357-001	3	-.4087057357-001
4	.5600131909-001	4	-.5849963231-002	4	-.9093370676+000	4	-.9093370676+000	4	-.1015849191+000	4	-.1015849191+000
5	.1628397117-001	5	-.2334120736-002	5	-.2209119049+001	5	-.2209119049+001	5	-.3543820818+000	5	-.3543820818+000
6	.3925271530-002	6	-.7109264469-003	6	-.7138477083+001	6	-.7138477083+001	6	-.1466077640+001	6	-.1466077640+001
7	.8092357145-003	7	-.1767869713-003	7	-.2847841761+002	7	-.2847841761+002	7	-.7021538912+001	7	-.7021538912+001
8	.1458480718-003	8	-.3730442280-004	8	-.1339266155+003	8	-.1339266155+003	8	-.3834378667+002	8	-.3834378667+002
9	.2335797941-004	9	-.6851634789-005	9	-.7223620877+003	9	-.7223620877+003	9	-.2352879357+003	9	-.2352879357+003
10	.3366460062-005	10	-.1115446468-005	10	-.4386338859+004	10	-.4386338859+004	10	-.1602488655+004	10	-.1602488655+004
11	.4410684839-006	11	-.1631888883-006	11	-.2957443280+005	11	-.2957443280+005	11	-.1199202582+005	11	-.1199202582+005
12	.5296944188-007	12	-.2168735885-007	12	-.2190381011+006	12	-.2190381011+006	12	-.9778395726+005	12	-.9778395726+005
13	.5871198431-008	13	-.2641112774-008	13	-.1766565161+007	13	-.1766565161+007	13	-.8627454378+006	13	-.8627454378+006
14	.6041516224-009	14	-.2968696619-009	14	-.1540404573+008	14	-.1540404573+008	14	-.8187694544+007	14	-.8187694544+007
15	.5800391826-010	15	-.3098721310-010	15	-.1443385940+009	15	-.1443385940+009	15	-.8315514113+008	15	-.8315514113+008
16	.5218495060-011	16	-.3019202808-011	16	-.1445828841+010	16	-.1445828841+010	16	-.8997898600+009	16	-.8997898600+009
17	.4416289299-012	17	-.2758328827-012	17	-.1541257025+011	17	-.1541257025+011	17	-.1033309695+011	17	-.1033309695+011
18	.3527327898-013	18	-.2372187952-013	18	-.1741539533+012	18	-.1741539533+012	18	-.1255063339+012	18	-.1255063339+012
19	.2666843779-014	19	-.1927105553-014	19	-.2078562500+013	19	-.2078562500+013	19	-.1607377524+013	19	-.1607377524+013
20	.1913640634-015	20	-.1483379043-015	20	-.2612141099+014	20	-.2612141099+014	20	-.2164692031+014	20	-.2164692031+014
30	.5956650575-028	30	-.9172835120-028	30	-.2592483297+026	30	-.2592483297+026	30	-.4296185800+026	30	-.4296185800+026
31	.2696172922-029	31	-.4472803092-029	31	-.4960717828+027	31	-.4960717828+027	31	-.8879939467+027	31	-.8879939467+027
40	.4359269486-042	40	-.1769275454-041	40	-.4683628369+039	40	-.4683628369+039	40	-.2214370043+040	40	-.2214370043+040
41	.1363663260-043	41	-.6455845588-043	41	-.1062041244+041	41	-.1062041244+041	41	-.6005907364+041	41	-.6005907364+041
50	-.2366845236-057	50	-.2555962540-056	50	.1611833006+054	50	.1611833006+054	50	-.1277154242+055	50	-.1277154242+055
51	-.9387238878-059	51	-.7427698865-058	51	.6848546612+055	51	.6848546612+055	51	-.4273022030+056	51	-.4273022030+056
60	-.2069563878-072	60	-.4560356638-072	60	.6440099712+070	60	.6440099712+070	60	-.4934182550+070	60	-.4934182550+070
61	-.5422077864-074	61	-.1096076455-073	61	.1048770951+072	61	.1048770951+072	61	-.1953876871+072	61	-.1953876871+072
70	-.1293791135-088	70	-.1362398748-088	70	.8966308263+086	70	.8966308263+086	70	-.8833926828+086	70	-.8833926828+086
71	-.2810819153-090	71	-.2768823856-090	71	.4345859814+088	71	.4345859814+088	71	-.4005049101+088	71	-.4005049101+088
80	-.1521549543-105	80	-.7877966901-106	80	.1091095915+104	80	.1091095915+104	80	-.5196501308+103	80	-.5196501308+103
81	-.2849711805-107	81	-.1356976091-107	81	.5939878899+105	81	.5939878899+105	81	-.2586967599+105	81	-.2586967599+105
90	-.4481176500-123	90	-.6513555091-124	90	.4044186355+121	90	.4044186355+121	90	-.4507378882+120	90	-.4507378882+120
91	-.7383759998-125	91	-.8230105582-126	91	.2444426417+123	91	.2444426417+123	91	-.1903490540+122	91	-.1903490540+122
99	-.2630227635-139	99	-.4128494933-140	99	.6178760594+137	99	.6178760594+137	99	.1181787996+137	99	.1181787996+137
100	-.3906022903-141	100	.7472725116-142	100	.4066698014+139	100	.4066698014+139	100	.9193683235+138	100	.9193683235+138

REAL X = .3000000000+001		IMAGINARY X = -.5000000000+000		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND		SECOND KIND		REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	.2372449025-001	.1759142292+000	0	.3660315914+000	.3660315914+000	.3649294066-001	.3649294066-001
1	.3642171434+000	.9482860906-001	1	.9301586694-001	.9301586694-001	-.1442931894+000	-.1442931894+000
2	.3152713343+000	-.2458631604-001	2	-.2521307712+000	-.2521307712+000	-.1618026601+000	-.1618026601+000
3	.1536786193+000	-.4948984201-001	3	-.4581461284+000	-.4581461284+000	-.1862329543+000	-.1862329543+000
4	.5234655237-001	-.2962033420-001	4	-.7175182402+000	-.7175182402+000	-.4343490684+000	-.4343490684+000
5	.1352661508-001	-.1150362154-001	5	-.1424926485+001	-.1424926485+001	-.1430659687+001	-.1430659687+001
6	.2750552081-002	-.3376760698-002	6	-.3515340759+001	-.3515340759+001	-.5516879616+001	-.5516879616+001
7	.4431650757-003	-.8007112949-003	7	-.9519784012+001	-.9519784012+001	-.2429993706+002	-.2429993706+002
8	.5461636417-004	-.1592677017-003	8	-.2309447033+002	-.2309447033+002	-.1204177742+003	-.1204177742+003
9	.4316090424-005	-.2722532031-004	9	-.7157719317+001	-.7157719317+001	-.6608470341+003	-.6608470341+003
10	-.5877528897-007	-.4066395477-005	10	.6576952079+003	.6576952079+003	-.3959179985+004	-.3959179985+004
11	-.1004894174-006	-.5368478634-006	11	.8980799659+004	.8980799659+004	-.2555780587+005	-.2555780587+005
12	-.2338896743-007	-.6313218451-007	12	.9810878523+005	.9810878523+005	-.1755229183+006	-.1755229183+006
13	-.3837096220-008	-.6641426511-008	13	.1023688970+007	.1023688970+007	-.1265021552+007	-.1265021552+007
14	-.5186580724-009	-.6252583389-009	14	.1071233419+008	.1071233419+008	-.9407930551+007	-.9407930551+007
15	-.6095852873-010	-.5241322248-010	15	.1144777237+009	.1144777237+009	-.7042807165+008	-.7042807165+008
16	-.6394708083-011	-.3853756875-011	16	.1258267495+010	.1258267495+010	-.5068521717+009	-.5068521717+009
17	-.6078617344-012	-.2391682272-012	17	.1425649988+011	.1425649988+011	-.3109782883+010	-.3109782883+010
18	-.5286360714-013	-.1113439068-013	18	.1664556447+012	.1664556447+012	-.7821629434+010	-.7821629434+010
19	-.4232769842-014	-.1716752895-015	19	.1998854495+013	.1998854495+013	.2421615191+012	.2421615191+012
20	-.3133013325-015	.3979384321-016	20	.2460584990+014	.2460584990+014	.7284638969+013	.7284638969+013
30	.3518985681-028	.1586977031-027	30	.1241126680+026	.1241126680+026	.3091841722+026	.3091841722+026
31	.2946884120-029	.7291188454-029	31	.3471205192+027	.3471205192+027	.5690776239+027	.5690776239+027
40	.2945007688-041	.9260791572-042	40	-.1176092824+040	-.1176092824+040	-.5957821363+039	-.5957821363+039
41	.1009707565-042	-.5132050566-043	41	-.2823920681+041	-.2823920681+041	-.2078555825+041	-.2078555825+041
50	-.1879966979-056	-.4588159559-056	50	.3456853535+054	.3456853535+054	-.5595042755+054	-.5595042755+054
51	.7712599562-058	-.1245891040-057	51	.1437047130+056	.1437047130+056	-.1642157026+056	-.1642157026+056
60	-.9824749300-072	.5014646940-072	60	.1983188967+070	.1983188967+070	.1466357245+070	.1466357245+070
61	-.2193364552-073	.1623817692-073	61	.6817979898+071	.6817979898+071	.7048710173+071	.7048710173+071
70	.2483976540-088	.4012293332-088	70	-.3258224837+086	-.3258224837+086	.3721015589+086	.3721015589+086
71	.6617926497-090	.7551104704-090	71	-.1773009660+088	-.1773009660+088	.1452359991+088	.1452359991+088
80	.3947011644-105	-.2916196435-105	80	-.2897593982+103	-.2897593982+103	-.2990856112+103	-.2990856112+103
81	.6371238695-107	-.6580825203-107	81	-.1252087573+105	-.1252087573+105	-.1813407602+105	-.1813407602+105
90	-.9730463530-123	-.1113883094-122	90	.9494613813+120	.9494613813+120	-.7801446165+120	-.7801446165+120
91	-.1900127149-124	-.1560413124-124	91	.6335497955+122	.6335497955+122	-.3649153980+122	-.3649153980+122
99	-.7883836273-139	.5800204311-139	99	.1177496036+137	.1177496036+137	.1210670670+137	.1210670670+137
100	-.1032551724-140	.1062121239-140	100	.6295233306+138	.6295233306+138	.9078792797+138	.9078792797+138

REAL X = .300000000+001		IMAGINARY X = -.100000000+001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	IMAGINARY BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	.5101617088-001	.3708986643+000	.2091513066+000	0	.4748759152+000	.1030105044+000	.2924173214+000	.3112327252+000	.2855770730+000	.5411773448+000	.1477911835+001
1	.4224902575+000	.5582481105+000	.1086325179+000	1	.1831778950+000	.4400692195+001	.3685352975+002	.4638733649+003	.5973560459+003	.9033664985+004	.9389625123+005
2	.3685120107+000	.1086325179+000	.6157036166-001	2	-.2222906133+000	.1767321649+001	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006
3	.1581901640+000	.3973009623-001	.2185037201-001	3	-.3609974523+000	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.7830941079+007
4	.4494421318-002	.5592002532-002	.1080463531-002	4	-.335900855+000	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.6721885673+008
5	.8630966680-003	.1080463531-002	.1564259042-003	5	-.5887316816-001	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.5456744853+009
6	.5908950316-003	.1564259042-003	.3442110123-006	6	.1767321649+001	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.3938209748+010
7	.1752356778-003	.3442110123-006	.6220282830-007	7	.1267232745+002	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1991799768+011
8	.3688288018-004	.6220282830-007	.1039489943-007	8	.7533905627+002	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.6413378512+011
9	.6099242205-005	.1039489943-007	.1353873041-008	9	.4341738601+003	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.4325463905+013
10	.8194908162-006	.1353873041-008	.1459147419-009	10	.2487587886+004	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.4721337763+025
11	.8954804030-007	.1459147419-009	.1323279292-010	11	.1398318212+005	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1393892894+027
12	.7643156770-008	.1323279292-010	.9989320397-012	12	.7321893929+005	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1470718235+039
13	.4268580135-009	.9989320397-012	.5928746597-013	13	.300182345+006	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.5360408669+040
14	.3257914273-011	.5928746597-013	.2161442810-014	14	-.1106727221+005	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.5579580891+053
15	.4820916508-011	.2161442810-014	.5674915078-016	15	.2310643263+008	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.2399502089+055
16	.8009413445-012	.5674915078-016	.9428808817-028	16	-.4232572120+009	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1557777906+069
17	.8009413445-012	.9428808817-028	.1277242479-028	17	.5967865768+010	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.7667410549+070
18	.9270340517-013	.1277242479-028	.3897400879-041	18	.7602306747+011	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.2289466722+085
19	.8703035114-014	.3897400879-041	.3129779806-042	19	.9115847746+012	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1262414102+087
20	.6924787036-015	.3129779806-042	.1199613149-055	20	-.1033939703+014	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1395308141+102
30	.5180757897-027	.1199613149-055	.6690147745-057	30	.8683849132+025	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.8483086183+103
31	.2320021636-028	.6690147745-057	.4793867236-071	31	.1295545912+027	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.2949496653+119
40	.4673768098-042	.4793867236-071	.2516551853-072	40	.2209068620+039	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1552940880+121
50	.5282108551-055	.2516551853-072	.3539295936-087	50	.4166488177+040	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.2314955935+135
51	.8397363193-057	.3539295936-087	.1185337802-088	51	.7028406442+053	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	.1882396519+137
60	.1042326043-070	.1185337802-088	.6177669412-104	60	.1665457397+069	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
61	.2152843615-072	.6177669412-104	.1795199250-105	61	.4155187138+070	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
70	.6321434762-087	.1795199250-105	.3060724966-121	70	.2087330429+085	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
71	.1076744930-088	.3060724966-121	.7145057233-123	71	.5595103838+086	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
80	.9246556339-104	.7145057233-123	.1906564550-137	80	.1943336962+119	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
81	.1323221577-105	.1906564550-137	.4957525238-139	81	.5209003172+120	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
90	.3898564034-121	.4957525238-139		90	-.2515540870+135	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
91	.4702176132-123			91	-.1040600941+137	.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
99	.4241386738-137			99		.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	
100	.5382214547-139			100		.1267232745+002	.7533905627+002	.4341738601+003	.2487587886+004	.8782355675+006	

REAL X = .3600000000+001		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND		SECOND KIND		REAL BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	REAL	IMAGINARY	N	REAL	IMAGINARY	N	REAL	IMAGINARY	N
0	.1416145411+001	.1889728259+001	0	.1896772071+001	.1896772071+001	0	.1896772071+001	.1896772071+001	0
1	.1345793126+001	.1504461662+001	1	.1494685555+001	.1494685555+001	1	.1494685555+001	.1494685555+001	1
2	.1336811153+001	-.4648002549+000	2	-.4814237703+000	-.4814237703+000	2	-.4814237703+000	-.4814237703+000	2
3	.1553835310+000	-.7776197831+000	3	-.7740437368+000	-.7740437368+000	3	-.7740437368+000	-.7740437368+000	3
4	-.2483072668+000	-.2613414392+000	4	-.2034562454+000	-.2034562454+000	4	-.2034562454+000	-.2034562454+000	4
5	-.1358322724+000	.1314672412-001	5	.1314014952+000	.1314014952+000	5	.1314014952+000	.1314014952+000	5
6	-.2482089347-001	.3641703410-001	6	.945073387-001	.945073387-001	6	.945073387-001	.945073387-001	6
7	.3148145976-002	.1198019724-001	7	-.4350334743+001	-.4350334743+001	7	-.4350334743+001	-.4350334743+001	7
8	.2740765304-002	.1402923944-002	8	-.9012569442+001	-.9012569442+001	8	-.9012569442+001	-.9012569442+001	8
9	.6424045450-003	.2397443705-003	9	.2480573203+002	.2480573203+002	9	.2480573203+002	.2480573203+002	9
10	.5270626153-004	-.1278333916-003	10	.3642797177+003	.3642797177+003	10	.3642797177+003	.3642797177+003	10
11	.1051575914-004	-.2320058468-004	11	.2008526799+004	.2008526799+004	11	.2008526799+004	.2008526799+004	11
12	.4081096937-005	.1412592059-005	12	.452057751+004	.452057751+004	12	.452057751+004	.452057751+004	12
13	-.6030070153-006	.3102096997-006	13	-.3575215011+005	-.3575215011+005	13	-.3575215011+005	-.3575215011+005	13
14	-.2837828550-007	.9500513458-007	14	-.5330173070+006	-.5330173070+006	14	-.5330173070+006	-.5330173070+006	14
15	.6653819278-008	.1182007086-007	15	-.3601017489+007	-.3601017489+007	15	-.3601017489+007	-.3601017489+007	15
16	.1685985657-008	.4432978093-009	16	-.8576905531+007	-.8576905531+007	16	-.8576905531+007	-.8576905531+007	16
17	.1809638827-009	-.1090117973-009	17	.1324899035+009	.1324899035+009	17	.1324899035+009	.1324899035+009	17
18	.5539142634-011	-.2357731137-010	18	.2225461359+010	.2225461359+010	18	.2225461359+010	.2225461359+010	18
19	-.1412415051-011	-.2223575361-011	19	.1792237502+011	.1792237502+011	19	.1792237502+011	.1792237502+011	19
20	-.2666008196-012	-.5662630858-013	20	-.6034392490+021	-.6034392490+021	20	-.6034392490+021	-.6034392490+021	20
30	-.5391350402-024	.3748284667-023	30	-.1451043436+023	-.1451043436+023	30	-.1451043436+023	-.1451043436+023	30
31	.1537082600-024	.2034835283-024	31	-.1154602070+034	-.1154602070+034	31	-.1154602070+034	-.1154602070+034	31
40	.1961481165-035	.2135273525-036	40	-.3122040580+034	-.3122040580+034	40	-.3122040580+034	-.3122040580+034	40
41	.7845257677-037	-.6337882003-037	41	.1706547618+047	.1706547618+047	41	.1706547618+047	.1706547618+047	41
50	.7637400256-050	-.8718339986-049	50	.6322719173+048	.6322719173+048	50	.6322719173+048	.6322719173+048	50
51	-.2321457686-050	-.2757899813-050	51	.2738733010+061	.2738733010+061	51	.2738733010+061	.2738733010+061	51
60	-.5380535395-063	.3944014773-064	60	.7652316713+061	.7652316713+061	60	.7652316713+061	.7652316713+061	60
61	-.1407093635-064	.1217775932-064	61	-.1721387047+076	-.1721387047+076	61	-.1721387047+076	-.1721387047+076	61
70	-.4030367800-079	.6395352242-078	70	-.8651992715+077	-.8651992715+077	70	-.8651992715+077	-.8651992715+077	70
71	.1258365356-079	.1425142032-079	71	-.5855348286+091	-.5855348286+091	71	-.5855348286+091	-.5855348286+091	71
80	.1849656750-093	.1022321683-094	80	-.1675574627+092	-.1675574627+092	80	-.1675574627+092	-.1675574627+092	80
81	.3590277968-095	-.3218520317-095	81	.5622677327+107	.5622677327+107	81	.5622677327+107	.5622677327+107	81
90	.7636072810-111	-.1551416411-109	90	.3572204055+109	.3572204055+109	90	.3572204055+109	.3572204055+109	90
91	-.2419541495-111	-.2667195956-111	91	.5766988211+122	.5766988211+122	91	.5766988211+122	.5766988211+122	91
99	-.1384359638-124	-.1514234213-124	99	.1999323992+124	.1999323992+124	99	.1999323992+124	.1999323992+124	99
100	-.4326343325-126	-.1919340721-127	100			100			100

REAL X = .300000000+001		IMAGINARY X = -.100000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9575010691+003	.4426690726+003	0	.4426690732+003	.9575010734+003
1	.3757039913+003	.8818404911+003	1	.8818404664+003	-.3757039905+003
2	.7458141076+003	-.2664517867+003	2	-.2664517880+003	-.7458141131+003
3	-.1508434321+003	-.5763916051+003	3	-.5763915981+003	.1508434299+003
4	-.4047159398+003	.5853193394+002	4	.5853193795+002	.4047159495+003
5	.2263574946+001	.2567212164+003	5	.2567212024+003	-.2263567087+001
6	.1463247855+003	.2147534822+002	6	.2147532864+002	-.1463248068+003
7	.2447836823+002	-.7452157823+002	7	-.7452154457+002	-.2447840302+002
8	-.3366640651+002	-.185530615+002	8	-.1855522821+002	.3366645982+002
9	-.1129107178+002	.1333249823+002	9	.1333241789+002	.1129125307+002
10	.452176558+001	.5845661752+001	10	.5845225787+001	-.4521865095+001
11	.2642285773+001	-.1242152655+001	11	-.1242134459+001	-.2643363952+001
12	-.2260708796+000	-.1056513178+001	12	-.1053790638+001	.2275252942+000
13	-.3760199161+000	-.7904301428+000	13	-.4797847118+000	.3829670495+000
14	-.317730222+001	.1192138586+000	14	.1015912892+000	.4518032312+001
15	.3348189502+001	.1851153130+001	15	-.3432005696+001	-.7661693959+001
16	.7696949318+002	-.8195878198+002	16	.8702784820+001	-.2081582409+000
17	-.1677878617+002	-.2652803473+002	17	.7435675475+000	.1510345915+000
18	-.7950781200+003	.2527416800+003	18	.1442793579+000	.2741252495+001
19	.1028143393+004	.2112935832+003	19	-.9901809883+001	.3130271734+001
20	.5010959084+004	.1084647105+004	20	-.2197288241+002	-.3480973012+002
30	.4092514393+011	-.8940846058+012	30	-.3771918053+008	-.3554279589+009
31	.4249239181+013	-.6778954481+012	31	.1986485226+010	-.7974382223+009
40	.1275694506+019	-.7842722548+020	40	.1844594436+017	-.7459099466+017
41	-.4923934341+021	-.1793395911+020	41	.6040836114+018	-.2420427016+017
50	.3226025898+029	-.3644840781+029	50	.9898451176+026	-.1638424748+027
51	-.2599915282+030	-.4144759050+030	51	.1806845386+028	.4764855633+027
60	.9918261406+040	-.2047372212+039	60	.2513381914+037	-.2344165726+037
61	-.1419236147+040	-.1292620199+040	61	.3452653763+038	.2036211906+036
70	.3957126589+051	-.2052047089+050	70	.2845229539+048	-.1509889309+048
71	-.1348088562+051	-.7002876589+052	71	.3062090074+049	.3118179090+049
80	-.2930435149+063	-.4722630152+062	80	.1214504974+060	-.2895631802+059
81	-.2942823415+063	-.6805938042+064	81	.9654246918+060	.1673746963+061
90	-.9528099390+075	-.2985475966+074	90	.1679133463+072	.2325830483+070
91	-.1782760731+075	.3428985923+077	91	.7949459548+072	.2809192742+073
99	.8921498206+086	-.9992959799+086	99	.1861883500+083	-.3053739475+083
100	-.3640600585+087	-.5911544951+087	100	.6607599041+084	.1740714419+084

REAL X = .3000000000+001		IMAGINARY X = -.1000000000+003			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1323726340+042	.2293853466+041	0	.2293853466+041	.1323726340+042
1	.2266967949+041	.1310569733+042	1	.1310569733+042	-.2266967949+041
2	.1284648445+042	-.2214121059+041	2	-.2214121059+041	-.1284648445+042
3	-.2137109042+041	-.1246726887+042	3	-.1246726887+042	.2137109042+041
4	-.1197904425+042	.2038500220+041	4	.2038500220+041	-.1197904425+042
5	.1921494656+041	.1139562332+042	5	.1139562332+042	-.1921494656+041
6	.1073298807+042	-.1789754122+041	6	-.1789754122+041	-.1073298807+042
7	-.1647214818+041	-.1000856327+042	7	-.1000856327+042	.1647214818+041
8	-.9240459324+041	.1497896037+041	8	.1497896037+041	-.9240459324+041
9	.1345717497+041	.8446730103+041	9	.8446730103+041	-.1345717497+041
10	.7644687389+041	-.1194336554+041	10	-.1194336554+041	-.7644687389+041
11	-.1047014123+041	-.6850306853+041	11	-.6850306853+041	.1047014123+041
12	-.6077751452+041	.9665152280+040	12	.9665152280+040	-.6077751452+041
13	.7750469508+040	.5339028005+041	13	.5339028005+041	-.7750469508+040
14	.4643782344+041	-.6542334781+040	14	-.6542334781+040	-.4643782344+041
15	-.5451252652+040	-.3999228776+041	15	-.3999228776+041	.5451252652+040
16	-.3410201311+041	.4482372149+040	16	.4482372149+040	-.3410201311+041
17	.2636093557+040	.2879307820+041	17	.2879307820+041	-.2636093557+040
18	.2407164205+041	-.2908828272+040	18	-.2908828272+040	-.2407164205+041
19	-.2293839898+040	.1992683825+041	19	.1992683825+041	-.2293839898+040
20	-.1633397696+041	.1782100759+040	20	.1782100759+040	-.1633397696+041
30	.1305417114+040	-.4441368310+038	30	-.4441368310+038	-.1305417114+040
31	-.2408726302+038	-.9611551460+039	31	-.9611551460+039	.2408726302+038
40	-.3970458519+038	-.2665092299+037	40	-.2665092299+037	-.3970458519+038
41	-.2089850250+037	.2657254981+038	41	.2657254981+038	-.2089850250+037
50	.4760150427+036	.9137408988+035	50	.9137408988+035	-.4760150427+036
51	.5981447417+035	-.2866306614+036	51	-.2866306614+036	-.5981447417+035
60	-.2222112668+034	-.7819615520+033	60	-.7819615520+033	.2222112668+034
61	-.4576723156+033	.1238105064+034	61	.1238105064+034	-.4576723156+033
70	.4309142721+031	.2373754572+031	70	.2373754572+031	-.4309142721+031
71	.1262050287+031	-.2199324801+031	71	-.2199324801+031	-.1262050287+031
80	-.3516807032+028	-.2868190208+028	80	-.2868190208+028	.3516807032+028
81	-.1396530540+028	.1644761849+028	81	.1644761849+028	-.1396530540+028
90	.1219836866+025	.1477471015+025	90	.1477471015+025	-.1219836866+025
91	.6625966116+024	-.5248470482+024	91	-.5248470482+024	-.6625966116+024
99	.8171439056+021	-.4502836181+021	99	-.4502836181+021	-.8171439056+021
100	-.1789066861+021	-.3416700197+021	100	-.3416700197+021	.1789066861+021

REAL X = .5000000000+001		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.1917848549+000	0	.0000000000	0	-.5673243709-001	0	.0000000000
1	-.9508940808-001	1	.0000000000	1	.1804383675+000	1	.0000000000
2	.1347312101+000	2	.0000000000	2	.1649954576+000	2	.0000000000
3	.2298206182+000	3	.0000000000	3	-.1544290991-001	3	.0000000000
4	.1870176553+000	4	.0000000000	4	-.1866155315+000	4	.0000000000
5	.1068111615+000	5	.0000000000	5	-.3204650467+000	5	.0000000000
6	.4796689986-001	6	.0000000000	6	-.5184075714+000	6	.0000000000
7	.1790277818-001	7	.0000000000	7	-.1927394639+001	7	.0000000000
8	.5741434675-002	8	.0000000000	8	-.2563776345+001	8	.0000000000
9	.1618099715-002	9	.0000000000	9	-.7689444934+001	9	.0000000000
10	.4073442442-003	10	.0000000000	10	-.2665611441+002	10	.0000000000
11	.9274611037-004	11	.0000000000	11	-.1042662356+003	11	.0000000000
12	.1928786347-004	12	.0000000000	12	-.4529685692+003	12	.0000000000
13	.3693206998-005	13	.0000000000	13	-.2160576611+004	13	.0000000000
14	.6554543131-006	14	.0000000000	14	-.1121414513+005	14	.0000000000
15	.1084280182-006	15	.0000000000	15	-.6288146513+005	15	.0000000000
16	.1679939976-007	16	.0000000000	16	-.3786509387+006	16	.0000000000
17	.2448020198-008	17	.0000000000	17	-.2436214730+007	17	.0000000000
18	.3367416303-009	18	.0000000000	18	-.1667485217+008	18	.0000000000
19	.4386786630-010	19	.0000000000	19	-.1209576913+009	19	.0000000000
20	.5427726761-011	20	.0000000000	20	-.9267951403+009	20	.0000000000
30	.4282730217-021	30	.0000000000	30	-.7760717570+019	30	.0000000000
31	.3419992523-022	31	.0000000000	31	-.9401810041+020	31	.0000000000
40	.1210347585-032	40	.0000000000	40	-.2055758716+031	40	.0000000000
41	.7317268114-034	41	.0000000000	41	-.3317264059+032	41	.0000000000
50	.2857479350-045	50	.0000000000	50	-.6964109188+043	50	.0000000000
51	.1390347013-046	51	.0000000000	51	-.1403223624+045	51	.0000000000
60	.9285901110-059	60	.0000000000	60	-.1786114181+057	60	.0000000000
61	.3780914088-060	61	.0000000000	61	-.4314878111+058	61	.0000000000
70	.5782161370-073	70	.0000000000	70	-.2459324803+071	70	.0000000000
71	.2024178147-074	71	.0000000000	71	-.6926437806+072	71	.0000000000
80	.8732233016-088	80	.0000000000	80	-.1425339371+086	80	.0000000000
81	.2681093536-089	81	.0000000000	81	-.4585106079+087	81	.0000000000
90	.3816013506-103	90	.0000000000	90	-.2900049665+101	90	.0000000000
91	.1043397689-104	91	.0000000000	91	-.1049007269+103	91	.0000000000
99	.2223967141-117	99	.0000000000	99	-.4524781791+115	99	.0000000000
100	.5635650303-119	100	.0000000000	100	-.1799713983+117	100	.0000000000

REAL X = .5000000000+001		IMAGINARY X = -.1000000000-002		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.1917849318+000	0	-.9508943291-004	0	-.5673250155-001	0	.1804383866-003
1	-.9508948257-001	1	.1537491038-003	1	.1804384247+000	1	.1289078088-003
2	.1347312261+000	2	.1759281540-003	2	.1649955366+000	2	-.8144102429-004
3	.2298206681+000	3	.4912528735-004	3	-.1544287846-001	3	-.1773497939-003
4	.1870176826+000	4	.4280297001-004	4	.1866155159+000	4	-.1711726130-003
5	.1068111625+000	5	-.588426725-004	5	-.3204649751+000	5	.1979424802-003
6	.4796689148-001	6	.3965750312-004	6	-.5184073141+000	6	-.4053054095-003
7	.1790277094-001	7	-.1932245416-004	7	.1027393777+001	7	-.1125423335-002
8	.5741430791-002	8	-.7568194912-005	8	-.2563773218+001	8	-.3587400701-002
9	.1618098113-002	9	-.2505234727-005	9	-.7689432375+001	9	-.1281510428-001
10	.4073436962-003	10	-.7219421520-006	10	-.2665605890+002	10	-.5095396198-001
11	.9274594885-004	11	-.1847534993-006	11	-.1042659677+003	11	-.2235826161+000
12	.1928782146-004	12	-.4259764120-007	12	-.4529671677+003	12	-.1073450717+001
13	.3693197190-005	13	-.8946877497-008	13	-.2160568707+004	13	-.5596637905+001
14	.6554522333-006	14	-.1726842550-008	14	-.1121409734+005	14	-.3148180687+002
15	.1084276137-006	15	-.3084843319-009	15	-.6288115674+005	15	-.1900061870+003
16	.1679932703-007	16	-.5130999573-010	16	-.3786488232+006	16	-.1224529137+004
17	.2448008038-008	17	-.7986515595-011	17	-.2436199360+007	17	-.8391702220+004
18	.3367397251-009	18	-.1168400079-011	18	-.1667473427+008	18	-.6092806302+005
19	.4386758709-010	19	-.1612698630-012	19	-.1209567391+009	19	-.4671545518+006
20	.5427686096-011	20	-.2107136937-013	20	-.9267870643+009	20	-.3771569801+007
21	.4282657771-021	21	-.2535424902-023	21	-.7760567611+019	21	-.4745346882+017
22	.3419930568-022	22	-.2093923207-024	22	-.9401616332+020	22	-.5939507811+018
23	.1210310411-032	23	-.9609514644-035	23	-.2055688970+031	23	-.1672637226+029
24	.7317031661-034	24	-.5956909658-036	24	-.3317145940+032	24	-.2765909796+030
25	.2857340736-045	25	-.2843531767-047	25	-.6963743368+043	25	-.7067998361+041
26	.1390276788-046	26	-.1411495637-048	26	-.1403146994+045	26	-.1452360990+043
27	.9285248243-059	27	-.1110502070-060	27	-.1785979909+057	27	-.2171484910+055
28	.3780639189-060	28	-.4597459905-062	28	-.4314543231+058	28	-.5332445266+056
29	.5781605672-073	29	-.8074532905-075	29	-.2459074613+071	29	-.3483261607+069
30	.2023977945-074	30	-.2867252988-076	30	-.6925713225+072	30	-.9949120541+070
31	.8731133596-088	31	-.1394419137-089	31	-.1425150755+086	31	-.2304458904+084
32	.2680747397-089	32	-.4335657684-091	32	-.4584484290+087	32	-.7504972984+085
33	.3815404083-103	33	-.685803382-105	33	-.2899565561+101	33	-.5269683574+099
34	.1043227301-104	34	-.1896060821-106	34	-.1048828298+103	34	-.1927161327+101
35	.2223536717-117	35	-.4397641317-119	35	-.4523870102+115	35	-.9037452665+113
36	.5534557020-119	36	-.1105694445-120	36	-.1799344092+117	36	-.3630643766+115

REAL X = .5000000000+001		IMAGINARY X = -.1000000000-001		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.1917925424+000	0	-.9509169112-003	0	-.5673888254+001	0	.1804402749-002
1	-.9509685723+001	1	.1537503017-002	1	.1804440895+000	1	.1289102555-002
2	.1347328113+000	2	.1759301259-002	2	.1650033563+000	2	-.8144122680-003
3	.2298256110+000	3	.4912557498-003	3	-.1543976445-001	3	-.1773506173-002
4	.1870203816+000	4	-.4280368236-003	4	-.1866139743+000	4	-.1711717610-002
5	.1068112702+000	5	-.5884482698-003	5	-.3204578834+000	5	-.1979380821-002
6	.4796606213+001	6	-.3965764825-003	6	-.5183818400+000	6	-.4052911825-002
7	.1790205465+001	7	-.1932239350-003	7	-.1027308434+001	7	-.1125372256-001
8	.5741046344+002	8	-.7568110549-004	8	-.2503463614+001	8	-.3587194676-001
9	.1617939468+002	9	-.2505183544-004	9	-.7688189061+001	9	-.1281418914+000
10	.4072894351+003	10	-.7219197622-005	10	-.2665056408+002	10	-.5094952960+000
11	.9272995802+004	11	-.1847455723-005	11	-.1042394526+003	11	-.2235593635+001
12	.1928366210+004	12	-.4259525094-006	12	-.4528284326+003	12	-.1073319342+002
13	.3692226295+005	13	-.8946245526-007	13	-.2159786322+004	13	-.5595842501+002
14	.6552463392+006	14	-.1726693217-007	14	-.1120936671+005	14	-.3147666691+003
15	.1083875656+006	15	-.3084523614-008	15	-.6285062925+005	15	-.1899709219+004
16	.1679212743+007	16	-.5130372993-009	16	-.3784394196+006	16	-.1224272804+005
17	.2446804216+008	17	-.7985382187-010	17	-.2434677946+007	17	-.8389735300+005
18	.3365515177+009	18	-.1168209591-010	18	-.1666306347+008	18	-.6091217487+006
19	.4383994780+010	19	-.1612399522-011	19	-.1208624836+009	19	-.4670197911+007
20	.5423860645+011	20	-.2106696065-012	20	-.9259876827+009	20	-.3770372345+008
30	.4275487326+021	30	-.2534108097-022	30	-.7745727082+019	30	-.4742118475+018
31	.3413798668+022	31	-.2092755569-023	31	-.9382446557+020	31	-.5935208385+019
40	.1206632063+032	40	-.9600276222-034	40	-.2048788425+031	40	-.1670671839+030
41	.7293636177+034	41	-.5950876292-035	41	-.3305459774+032	41	-.2762502917+031
50	.2843628098+045	50	-.2839166416-046	50	-.6927561398+043	50	-.7055265865+042
51	.1385329878+046	51	-.1409237512-047	51	-.1395568130+045	51	-.1449643175+044
60	.9220685028+059	60	-.1108013833-059	60	-.1772712738+057	60	-.2165927227+056
61	.3753454925+060	61	-.4586801057-061	61	-.4281435573+058	61	-.5318354716+057
70	.5726674627+073	70	-.8049682850-074	70	-.24343550216+071	70	-.3471248768+070
71	.2004188752+074	71	-.2858166088-075	71	-.6854111684+072	71	-.9913852058+071
80	.6622507855+088	80	-.138877564-088	80	-.1406520965+086	80	-.2294159732+085
81	.2646549743+089	81	-.4317067802-090	81	-.4523073052+087	81	-.7478611524+086
90	.3755224548+103	90	-.6822747882-104	90	-.2851778360+101	90	-.5240064463+100
91	.1026402736+104	91	-.1886083248-105	91	-.1031162749+103	91	-.1916093648+102
99	.2181056462+117	99	-.4370172020-118	99	-.4433927806+115	99	-.8976281240+114
100	.54266663579+119	100	-.1098645353-119	100	-.1762855147+117	100	-.3605582390+116

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+000			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.125539029+000	-.9533781903-002	0	-.5737759402-001	.1806291374-001
1	-.9583485657-001	.1538701211-001	1	.1810107497+000	.1291550159-001
2	.1348914098+000	.1761273931-001	2	.1657856946+000	-.8145450777-002
3	.2303202175+000	.4915434416-002	3	-.1512849902-001	-.1774330735-001
4	.1872903898+000	-.4287495133-002	4	-.1864605107+000	-.1710867584-001
5	.1068219770+000	-.5890081755-002	5	-.3197505563+000	-.1974989026-001
6	.4788305390-001	-.3967215877-002	6	-.5158407974+000	-.4038710890-001
7	.1783039740-001	-.1931632027-002	7	-.1018799967+001	-.1120276033+000
8	.5702601951-002	-.7559670859-003	8	-.2532618064+001	-.3566648784+000
9	.1602082008-002	-.2500064773-003	9	.7564414954+001	-.1272297282+001
10	.4018683838-003	-.7196812120-004	10	-.2610400952+002	-.5050797343+001
11	.9113323976-004	-.1839532678-004	11	-.1016044905+003	-.2212442967+002
12	.1286859439-004	-.4235642428-005	12	-.4390551355+003	-.1060247620+003
13	.3595404996-005	-.8883124633-006	13	-.2082195191+004	-.5516753741+003
14	.6347290032-006	-.1711784057-006	14	-.1074074603+005	-.3096618282+004
15	.1043999950-006	-.3052619002-007	15	-.5983015915+005	-.1864695775+005
16	.1607589144-007	-.5067874548-008	16	-.3577466230+006	-.1198802671+006
17	.2327157085-008	-.7872389517-009	17	-.2284535083+007	-.8194765101+006
18	.3178641055-009	-.149230026-009	18	-.1551292398+008	-.5933864716+007
19	.4109859788-010	-.1582615413-010	19	-.1115873416+009	-.4536855992+008
20	.5044674500-011	-.2062823973-011	20	-.8474456620+009	-.3652000744+009
30	.3575752053-021	-.2404196310-021	30	-.6315102468+019	-.4426717531+019
31	.2816535690-022	-.1977684977-022	31	-.7538686878+020	-.5515760292+020
40	.8554495685-033	-.870029E443-033	40	-.1400549663+031	-.1481668603+031
41	.5065726917-034	-.5363995689-034	41	-.2210905560+032	-.2435466095+032
50	.1571613987-045	-.2420939195-045	50	-.3638105879+043	-.5854827597+043
51	.7410203948-047	-.1193303908-046	51	-.7090576641+044	-.1193966689+045
60	.3442607248-059	-.8745153609-059	60	-.6135617466+056	-.1654266912+057
61	.1330266449-060	-.3568858367-060	61	-.1401468833+058	-.4024498379+058
70	.1017965987-073	-.5774835067-073	70	-.3733168768+070	-.2395655836+071
71	.3158317186-075	-.2028754953-074	71	-.9157540317+071	-.6765493059+072
80	-.2299710760-089	-.8870336416-088	80	.6426316775+084	-.1400922042+086
81	-.1251803312-090	-.2722078127-089	81	.2969140554+086	-.4500614532+087
90	-.8715169865-104	-.3786412055-103	90	.6939415730+100	-.2761830593+101
91	-.2590319971-105	-.1030529996-104	91	.2709155397+102	-.9935848375+102
99	-.8968504821-118	-.2083674007-117	99	.1834324044+115	-.4037979583+115
100	-.2336194560-119	-.5141742899-119	100	.7614531975+116	-.1590343039+117

REAL X = .500000000000+00i		IMAGINARY Y = -.500000000000+00i		SECOND KIND		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL
0	-.2111933480+000	-.5068234144-001	0	-.7323444346-001	.9261474322-001	0	.9261474322-001
1	-.1140512977+000	.7839658951-001	1	.1948575227+000	.6757170755-001	1	.6757170755-001
2	.1387828787+000	.9047924822-001	2	.1849772268+000	-.4089744036-001	2	-.4089744036-001
3	.2425017471+000	.2492770365-001	3	-.7662502083-002	-.8974964585-001	3	-.8974964585-001
4	.1939028316+000	-.2231189208-001	4	-.1831579718+000	-.8457013834-001	4	-.8457013834-001
5	.1070440326+000	-.3013453143-000	5	-.3036857399+000	-.9361142735-001	5	-.9361142735-001
6	.4582634518-001	-.2001115938-001	6	-.4579451111+000	-.1854853101+000	6	-.1854853101+000
7	.1607616438-001	-.9582463276-002	7	-.8274341693+000	-.5017623699+000	7	-.5017623699+000
8	.4770914349-002	-.3676504492-002	8	-.1850741816+001	-.1550670492+001	8	-.1550670492+001
9	.1221974543-002	-.1187838105-002	9	-.4880777918+001	-.5341338513+001	9	-.5341338513+001
10	.2735230202-003	-.3328365617-003	10	-.1450296853+002	-.2038178689+002	10	-.2038178689+002
11	.5385520024-004	-.8249248195-004	11	-.4695300164+002	-.8544554439+002	11	-.8544554439+002
12	.9328923161-005	-.1834366099-004	12	-.1604265930+003	-.3901606734+003	12	-.3901606734+003
13	.1408607983-005	-.3699442183-005	13	-.5540892044+003	-.1925462043+004	13	-.1925462043+004
14	.1801678155-006	-.6824176982-006	14	-.1772575585+004	-.1020063458+005	14	-.1020063458+005
15	.1790250724-007	-.1159294178-006	15	-.3767267568+004	-.5767035419+005	15	-.5767035419+005
16	.8933566891-009	-.1823857522-007	16	.1404837824+005	-.3461279811+006	16	-.3461279811+006
17	-.1464539801-009	-.2669573262-008	17	.3217511922+006	-.2194975929+007	17	-.2194975929+007
18	-.5818498375-010	-.3649204429-009	18	.3737180826+007	-.1464358060+008	18	-.1464358060+008
19	-.1248438821-010	-.4673185278-010	19	.3778853371+008	-.1023564920+009	19	-.1023564920+009
20	-.2139157711-011	-.5620422940-011	20	.3671426476+009	-.7466490744+009	20	-.7466490744+009
30	-.4891140882-021	-.9480619255-022	30	.6607469308+019	-.6266307893+018	30	-.6266307893+018
31	-.3981745394-022	-.3615234862-023	31	.8001129594+020	.5228611964+018	31	.5228611964+018
40	-.1014549600-032	.1076307234-032	40	.1023220608+031	.1324548276+031	40	.1324548276+031
41	-.5477561914-034	.7123933805-034	41	.1421402165+032	.2280882288+032	41	.2280882288+032
50	.8960468154-046	.3557905285-045	50	-.1827104880+043	.5077860142+043	50	.5077860142+043
51	.6098701718-047	.1687227255-046	51	-.4663115281+044	.9763658440+044	51	.9763658440+044
60	.1187919690-058	.3981835046-059	60	-.1284153115+057	.2931588970+056	60	.2931588970+056
61	.4999235230-060	.1135938416-060	61	-.3141842563+058	.3929557684+057	61	.3929557684+057
70	.6394677215-073	-.5130188076-073	70	-.1232679397+071	-.1207983459+071	70	-.1207983459+071
71	.2058495451-074	-.2020273865-074	71	-.3099583967+072	-.3713053698+072	71	-.3713053698+072
80	-.1352774753-088	-.1294059131-087	80	.1923079908+085	-.9322024058+085	80	-.9322024058+085
81	-.8133936126-090	-.3931479939-089	81	.9099866213+086	-.2907666991+087	81	-.2907666991+087
90	-.5332174812-103	-.2696971191-103	90	.1718822367+101	-.6645094634+100	90	-.6645094634+100
91	-.1531774156-104	-.59139556303-105	91	.6394083637+102	-.1763315165+102	91	-.1763315165+102
99	-.3310242356-117	.1518039651-117	99	.2373132415+115	.1388510782+115	99	.1388510782+115
100	-.7861018148-119	.4603419752-119	100	.8798015675+116	.6403378996+116	100	.6403378996+116

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+001	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	-.2717356636+000	-.1210191605+000	-.1210191605+000
1	-.1751213937+000	.1661576796+000	.2395249883+000
2	.1515320504+000	.1966730456+000	.2478735248+000
3	.2030035487+000	.5209179703+001	.1479167682-001
4	.2154095506+000	-.5035620958-001	-.1776776504+000
5	.1072516692+000	-.6468193070-001	-.2654173530+000
6	.3883441250-001	-.4109524533-001	-.3164276783+000
7	.1038198475-001	-.1863897638-001	-.3832990227+000
8	.1866876052-002	-.6681426101-002	-.3791792054+000
9	.8988863580-004	-.1983497685-002	.4427004580+000
10	-.8895772853-004	-.5002814367-003	.6404941107+001
11	-.4506753292-004	-.1087201286-003	.4135978732+002
12	-.1420393790-004	-.2046348836-004	.2371078553+003
13	-.3544198962-005	-.3319659508-005	.1335656939+004
14	-.7512949096-006	-.4537195526-006	.7621133668+004
15	-.1396431485-006	-.4868231845-007	.4449279823+005
16	-.2314878803-007	-.2999561339-008	.2662572845+006
17	-.3455486191-008	.2654866786-009	.1628886250+007
18	-.4666780178-009	.1348748796-009	.1012281373+008
19	-.5704472515-010	.3008124714-010	.6320830791+008
20	-.6279291533-011	.5167386200-011	.3890425431+009
30	.7031122326-021	.3320031207-021	-.4059617025+019
31	.6147172533-022	.1512620635-022	-.4971875025+020
40	.4964311021-034	-.2667754637-032	.1597809680+030
41	-.2948250412-034	-.1618161119-033	.5294291468+031
50	-.7061467356-045	.2955190402-045	.2115246732+043
51	-.3146002962-046	.2127789449-046	.3544035246+044
60	.2184993388-058	.2090711245-058	-.4534815249+056
61	.1060281155-059	.6726004003-060	-.1188031127+058
70	.7947728844-073	-.2147352377-072	-.9586984075+069
71	.1274855437-074	-.8073980591-074	.6693121447+070
80	-.4199378365-087	.2226883230-088	.2812076048+085
81	-.1275508357-088	.3267067088-089	.8253425460+086
90	.9912704288-103	.2003275016-102	-.2962288506+100
91	.3607234924-104	.4934124877-104	-.1298253584+102
99	.1220008507-116	-.9620260310-117	-.4121279316+114
100	.2556995145-118	-.3002463246-118	-.1206062898+116

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+001	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	-.2717356636+000	-.1275191184+000	.1998819668+000
1	-.1751213937+000	.2395249883+000	.1545534188+000
2	.1515320504+000	.2478735248+000	-.8307903420-001
3	.2030035487+000	.1479167682-001	-.1867691200+000
4	.2154095506+000	-.1776776504+000	-.1643585605+000
5	.1072516692+000	-.2654173530+000	-.1592014241+000
6	.3883441250-001	-.3164276783+000	-.2847056399+000
7	.1038198475-001	-.3832990227+000	-.7107765148+000
8	.1866876052-002	-.3791792054+000	-.1986745281+001
9	.8988863580-004	.4427004580+000	-.6032277154+001
10	-.8895772853-004	.6404941107+001	-.1973075553+002
11	-.4506753292-004	.4135978732+002	-.6847639850+002
12	-.1420393790-004	.2371078553+003	-.2465581183+003
13	-.3544198962-005	.1335656939+004	-.8889108477+003
14	-.7512949096-006	.7621133668+004	-.2981912155+004
15	-.1396431485-006	.4449279823+005	-.7240488616+004
16	-.2314878803-007	.2662572845+006	.1286656637+005
17	-.3455486191-008	.1628886250+007	.4268356363+006
18	-.4666780178-009	.1012281373+008	.5052797091+007
19	-.5704472515-010	.6320830791+008	.4993130167+008
20	-.6279291533-011	.3890425431+009	.4642444273+009
30	.7031122326-021	-.4059617025+019	.1033486446+019
31	.6147172533-022	-.4971875025+020	.2440583937+019
40	.4964311021-034	.1597809680+030	-.9000531094+030
41	-.2948250412-034	.5294291468+031	-.1346305879+032
50	-.7061467356-045	.2115246732+043	.1421684941+043
51	-.3146002962-046	.3544035246+044	.3577998075+044
60	.2184993388-058	-.4534815249+056	.2889626687+056
61	.1060281155-059	-.1188031127+058	.4597514111+057
70	.7947728844-073	-.9586984075+069	-.6013309872+070
71	.1274855437-074	.6693121447+070	-.1680426728+072
80	-.4199378365-087	.2812076048+085	.7168436030+084
81	-.1275508357-088	.8253425460+086	.3960299739+086
90	.9912704288-103	-.2962288506+100	.3846304467+100
91	.3607234924-104	-.1298253584+102	.1131347958+102
99	.1220008507-116	-.4121279316+114	-.4831905809+114
100	.2556995145-118	-.1206062898+116	-.2163552094+116

REAL X = .5000000000+001		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND	N	REAL BESSEL	N	REAL BESSEL
0	-.1168985779+001	0	-.1269730527+001	0	-.1269730527+001	0	-.1269730527+001
1	-.1327469638+001	1	.8708488017+000	1	.8708488017+000	1	.8801593195+000
2	.3528196093+000	2	.1302539506+001	2	.1302539506+001	2	.1304216033+001
3	.1012246039+001	3	.2425565448+000	3	.2425565448+000	3	.2295299888+000
4	.5393840356+000	4	-.4276381560+000	4	-.4276381560+000	4	-.4475950016+000
5	.4123960250-001	5	-.3802138407+000	5	-.3802138407+000	5	-.3847448046+000
6	-.1036418333+000	6	-.1473869721+000	6	-.1473869721+000	6	-.9740112474-001
7	-.7031687461-001	7	-.2043865000-001	7	-.2043865000-001	7	.1433266344+000
8	-.2441776512-001	8	.9235263028-002	8	.9235263028-002	8	.3341215956+000
9	-.4580932732-002	9	.6900159895-002	9	.6900159895-002	9	.2810266462+000
10	.5158207487-004	10	.2365634746-002	10	.2365634746-002	10	-.1436736703+001
11	.3563482875-003	11	.5010553698-003	11	.5010553698-003	11	-.1091342789+002
12	.1368659413-003	12	.5228876519-004	12	.5228876519-004	12	-.4874347334+002
13	.3149245566-004	13	-.6907097917-005	13	-.6907097917-005	13	-.1608357597+003
14	.463277718-005	14	-.4687662561-005	14	-.4687662561-005	14	.2885386218+003
15	.2603917480-006	15	-.1230796491-005	15	-.1230796491-005	15	.1187199884+004
16	-.7910728697-007	16	-.2108734272-006	16	-.2108734272-006	16	.1766311489+005
17	-.3028095570-007	17	-.2290165251-007	17	-.2290165251-007	17	.1305597123+006
18	-.6024881682-008	18	-.5174416053-009	18	-.5174416053-009	18	.7189122384+006
19	-.8121940937-009	19	.4166947546-009	19	.4166947546-009	19	.2764607975+007
20	-.6721051075-010	20	.1124053756-009	20	.1124053756-009	20	.1158127605+007
30	-.4475743520-019	30	.1217510840-019	30	.1217510840-019	30	.4303994392+017
31	-.2960758790-020	31	.3131553911-020	31	.3131553911-020	31	.1465888857+018
40	-.5089845728-030	40	-.3159265665-030	40	-.3159265665-030	40	.3550326202+028
41	-.4217782530-031	41	-.4555875537-033	41	-.4555875537-033	41	.4268661310+029
50	-.1111515508-042	50	-.6414000336-042	50	-.6414000336-042	50	.1697813969+040
51	-.2419045485-043	51	-.2787229238-043	51	-.2787229238-043	51	.4293571779+041
60	.6171684998-055	60	-.757553189-055	60	-.757553189-055	60	-.2133933092+052
61	.6528210113-057	61	-.4590823792-056	61	-.4590823792-056	61	.1160018365+054
70	.2815311454-068	70	-.7117821348-070	70	-.7117821348-070	70	-.3658963140+066
71	.9692940682-070	71	-.6173922764-070	71	-.6173922764-070	71	-.4697872367+067
80	.1314419735-082	80	.1468820082-082	80	.1468820082-082	80	-.5164827824+080
81	.6741639933-084	81	.2080112619-084	81	.2080112619-084	81	-.1450679630+082
90	-.5533276479-098	90	.3956919092-097	90	.3956919092-097	90	-.9236269070+094
91	.4987677469-099	91	.1171945722-098	91	.1171945722-098	91	-.5951912527+096
99	-.9267424030-111	99	.1835124033-112	99	.1835124033-112	99	.7890071066+108
100	-.2277778765-112	100	.1431084094-112	100	.1431084094-112	100	.1440177878+110

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1725112391+003	-.9698300194+003	0	-.9698300165+003	.1725112363+003
1	-.8991440645+003	.1199171364+003	1	.1199171395+003	.8991440676+003
2	.3583393861+002	.7684255003+003	2	.7684254970+003	-.3583383472+002
3	.5989406321+003	.4810149910+002	3	.4810149376+002	-.5989406357+003
4	.1049326989+003	-.4195503266+003	4	-.4195503227+003	-.1049327068+003
5	-.2590886253+003	-.1235880735+003	5	-.1235880611+003	.2590886289+003
6	-.1101741893+003	.1371735840+003	6	.1371735824+003	.1101742097+003
7	.5913751947+002	.8033718029+002	7	.8033714580+002	-.5913751412+002
8	.4925208466+002	-.1800625248+002	8	-.1800627800+002	-.4925214326+002
9	-.1157508523+001	-.2559859683+002	9	-.2559850001+002	.1157518617+001
10	-.112219236+002	-.3208230863+001	10	-.3208010303+001	.1122213739+002
11	-.2879047298+001	.4050735743+001	11	.4050580551+001	.2879619478+001
12	.1119915160+001	.1637460883+001	12	.163604472+001	-.1119819252+001
13	.7240406019+000	-.1734445402+000	13	-.1748974760+000	-.7273495862+000
14	.3668889711-001	-.2608532866+000	14	-.2538587394+000	-.4349684944-001
15	-.7630185637-001	-.4402703091-001	15	-.1866597102-001	.8794096542-001
16	-.2211616236-001	.1703116445-001	16	.1261934112-001	.1062520384+000
17	.2146247909-002	.8121499345-002	17	-.2451818802+000	.8562678589-001
18	.2380711267-002	.3484287782-003	18	-.5956289739+000	-.6728838027+000
19	.3458555834-003	-.5589194028-003	19	.1355387055+001	-.2844556576+001
20	-.9734802033-004	-.1412736265-003	20	.1158504930+002	.4641831546+000
30	.1521244069-010	-.2472313318-010	30	.2348954821+008	-.4239687550+008
31	-.2765650705-011	-.4233176231-011	31	.2694929991+009	.1844088388+008
40	.2022844302-018	.6089570789-019	40	-.3610525330+016	-.3612035942+016
41	.1903073911-019	-.2074545434-019	41	.1238146302+017	-.3533547135+017
50	-.1417724794-028	.1377956816-027	50	-.5250509948+025	.3479243436+025
51	.1267372484-028	.7894893985-029	51	-.4941704863+026	-.2906760539+026
60	-.1297720173-037	.6617389849-038	60	.2327053472+035	.5126894183+035
61	.4644986136-039	.1079564736-038	61	-.3889127334+036	.4732400245+036
70	-.4346071517-049	-.2348320814-048	70	.2525594058+046	-.7552034789+045
71	-.1790077902-049	-.5057596655-050	71	.2272775225+047	.2443757765+047
80	.1030939145-059	-.3204981362-060	80	-.8648644133+056	-.5042341545+057
81	.1165920639-061	.7291838755-061	81	.5971933071+058	-.4350964001+058
90	.5690479405-072	.1307134022-071	90	-.3444337871+069	.2038021165+068
91	.8679605209-073	.4353600707-074	91	-.2780405672+070	-.4859639346+070
99	-.9374805670-083	-.6363123003-083	99	.3456988952+080	.1914753889+080
100	-.5480144073-084	.3088912906-084	100	-.3149496482+080	.7040381810+081

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+003			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.3160260071+041	-.1304651691+042	0	-.1304651691+042	-.3160260071+041
1	-.1291480090+042	-.3135243271+041	1	-.3135243271+041	.1291480090+042
2	-.3085761221+041	.1265534794+042	2	.1265534794+042	-.3085761221+041
3	.1227591631+042	.3012899439+041	3	.3012899439+041	-.1227591631+042
4	.2918242764+041	-.1178765787+042	4	-.1178765787+042	.2918242764+041
5	-.1120457336+042	-.2803824737+041	5	-.2803824737+041	.1120457336+042
6	-.2672062646+041	.1054284580+042	6	.1054284580+042	-.2672062646+041
7	.9820096197+041	.2525680452+041	7	.2525680452+041	-.9820096197+041
8	.2367622401+041	-.9054609354+041	8	-.9054609354+041	.2367622401+041
9	-.8264576615+041	-.2200960623+041	9	-.2200960623+041	.8264576615+041
10	-.2028800415+041	.7467398698+041	10	.7467398698+041	-.2028800415+041
11	.6679094215+041	.1854187156+041	11	.1854187156+041	-.6679094215+041
12	.1680018792+041	-.5913770247+041	12	-.5913770247+041	.1680018792+041
13	-.5183380678+041	.1508967634+041	13	.1508967634+041	-.5183380678+041
14	-.1343414680+041	.4497427259+041	14	.4497427259+041	-.1343414680+041
15	.3862948340+041	.1185398994+041	15	.1185398994+041	-.3862948340+041
16	.1036583769+041	-.3284571728+041	16	-.3284571728+041	.1036583769+041
17	-.2764681705+041	-.8982396822+040	17	-.8982396822+040	.2764681705+041
18	-.7712451561+040	.2303666200+041	18	.2303666200+041	-.7712451561+040
19	.1900218334+041	.6561021430+040	19	.6561021430+040	-.1900218334+041
20	.5529652775+040	.1551667056+041	20	.1551667056+041	-.5529652775+040
30	-.5913438426+039	.1174032281+040	30	.1174032281+040	-.5913438426+039
31	.858002679+039	.4483146858+039	31	.4483146858+039	-.858002679+039
40	.2386906381+038	-.3241300699+038	40	-.3241300699+038	.2386906381+038
41	-.2141393004+038	.1640847309+038	41	.1640847309+038	-.2141393004+038
50	-.3637711515+036	.3242436788+036	50	.3242436788+036	-.3637711515+036
51	.1932779606+036	.2270717394+036	51	.2270717394+036	-.1932779606+036
60	.2136296901+034	-.1124095226+034	60	-.1124095226+034	.2136296901+034
61	-.5987910359+033	.1213996512+034	61	.1213996512+034	-.5987910359+033
70	-.4968283277+031	.1056093307+031	70	.1056093307+031	-.4968283277+031
71	.4700712755+030	.2577473039+031	71	.2577473039+031	-.4700712755+030
80	.4697414021+028	.4368207127+027	80	.4368207127+027	-.4697414021+028
81	.2785941357+027	-.2229828866+028	81	-.2229828866+028	.2785941357+027
90	-.1836807730+025	-.8168786075+024	90	-.8168786075+024	.1836807730+025
91	-.3878427535+024	.7984049663+024	91	.7984049663+024	-.3878427535+024
99	-.6570776301+021	.7356221331+021	99	.7356221331+021	-.6570776301+021
100	.2945241870+021	.2824604781+021	100	.2824604781+021	-.2945241870+021

REAL X = .5000000000+001		IMAGINARY X = .0000000000		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1917848549+000	.0000000000	0	-.5673243709-001	.0000000000
1	-.9508940808-001	.0000000000	1	.1804383675+000	.0000000000
2	.1347312101+000	.0000000000	2	.1649954576+000	.0000000000
3	.2298206182+000	.0000000000	3	-.1544290991-001	.0000000000
4	.1870176553+000	.0000000000	4	-.1866155315+000	.0000000000
5	.1068111615+000	.0000000000	5	-.3204650467+000	.0000000000
6	.4796689986-001	.0000000000	6	-.5184075714+000	.0000000000
7	.1790277818-001	.0000000000	7	-.1027394639+001	.0000000000
8	.5741434675-002	.0000000000	8	-.2563776345+001	.0000000000
9	.1618099715-002	.0000000000	9	-.768944934+001	.0000000000
10	.4073442442-003	.0000000000	10	-.2665611441+002	.0000000000
11	.9274611037-004	.0000000000	11	-.1042662356+003	.0000000000
12	.1928786347-004	.0000000000	12	-.4529685692+003	.0000000000
13	.3693206998-005	.0000000000	13	-.2160576611+004	.0000000000
14	.6554543131-006	.0000000000	14	-.1121414513+005	.0000000000
15	.1084280182-006	.0000000000	15	-.6288146513+005	.0000000000
16	.1679939976-007	.0000000000	16	-.3786509387+006	.0000000000
17	.2448020198-008	.0000000000	17	-.2436214730+007	.0000000000
18	.3367416303-009	.0000000000	18	-.1667485217+008	.0000000000
19	.4386786630-010	.0000000000	19	-.1209576913+009	.0000000000
20	.5427726761-011	.0000000000	20	-.9267951403+009	.0000000000
30	.4282730217-021	.0000000000	30	-.7760717570+019	.0000000000
31	.3419992523-022	.0000000000	31	-.9401810041+020	.0000000000
40	.1210347583-032	.0000000000	40	-.2055758716+031	.0000000000
41	.7317268114-034	.0000000000	41	-.3317264059+032	.0000000000
50	.2857479350-045	.0000000000	50	-.6964109188+043	.0000000000
51	.1390347013-046	.0000000000	51	-.1403223624+045	.0000000000
60	.9285901110-059	.0000000000	60	-.1786114181+057	.0000000000
61	.3780914088-060	.0000000000	61	-.4314878111+058	.0000000000
70	.5782161370-073	.0000000000	70	-.2459324803+071	.0000000000
71	.2024178147-074	.0000000000	71	-.5926437806+072	.0000000000
80	.8732235016-088	.0000000000	80	-.1425339371+086	.0000000000
81	.2601093536-089	.0000000000	81	-.4585106079+087	.0000000000
90	.3616013506-103	.0000000000	90	-.2900049565+101	.0000000000
91	.1043397689-104	.0000000000	91	-.1049007269+103	.0000000000
99	.2223967141-117	.0000000000	99	-.4524781791+115	.0000000000
100	.5535650303-119	.0000000000	100	-.1799713983+117	.0000000000

REAL X = .5000000000+c01		IMAGINARY X = -.1000000000-002		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	-.1917849318+000	0	-.9508943291-004	0	-.5673250155-001	0	-.9508943291-004	0	-.5673250155-001	0	.1804383866-003
1	-.9508948257-001	1	.1537491038-003	1	.1804384247+000	1	.1537491038-003	1	.1804384247+000	1	.1289078088-003
2	.1347312261+000	2	.1759281540-003	2	.1649955366+000	2	.1759281540-003	2	.1649955366+000	2	-.81444109429-004
3	.2298206681+000	3	.4912528735-004	3	.1544297846-001	3	.4912528735-004	3	.1544297846-001	3	-.1773497938-003
4	.1870176826+000	4	-.4280297001-004	4	.1866155159+000	4	-.4280297001-004	4	.1866155159+000	4	-.1711726130-003
5	.1068111625+000	5	-.588426725-004	5	.3204649751+000	5	-.588426725-004	5	.3204649751+000	5	-.1979424802-003
6	.4796689148-001	6	-.3965750312-004	6	.5184073141+000	6	-.3965750312-004	6	.5184073141+000	6	-.4053054095-003
7	.1790277094-001	7	-.1932245416-004	7	.1027393777+001	7	-.1932245416-004	7	.1027393777+001	7	-.1125423335-002
8	.5741430791-002	8	-.7568194912-005	8	-.2563773218+001	8	-.7568194912-005	8	-.2563773218+001	8	-.3587400701-002
9	.1618048115-002	9	-.2505234727-005	9	-.7689432375+001	9	-.2505234727-005	9	-.7689432375+001	9	-.1281510423-001
10	.4073436962-003	10	-.7219421520-006	10	-.2665605890+002	10	-.7219421520-006	10	-.2665605890+002	10	-.5095396198-001
11	.9274594885-004	11	-.1847534993-006	11	-.1042659677+002	11	-.1847534993-006	11	-.1042659677+002	11	-.2235826161+000
12	.1928782146-004	12	-.4259764120-007	12	.4529671677+003	12	-.4259764120-007	12	.4529671677+003	12	-.1073450717+001
13	.3693197190-005	13	-.8946877497-038	13	-.2160568707+004	13	-.8946877497-038	13	-.2160568707+004	13	-.5596637905+001
14	.6554522333-006	14	-.1726842550-008	14	-.1121409734+005	14	-.1726842550-008	14	-.1121409734+005	14	-.3146180687+002
15	.1064276137-006	15	-.3084843319-009	15	-.6288115674+005	15	-.3084843319-009	15	-.6288115674+005	15	-.1900061870+003
16	.1679932703-007	16	-.5130999573-010	16	-.3786488232+006	16	-.5130999573-010	16	-.3786488232+006	16	-.1224529137+004
17	.2448008038-008	17	-.7986515595-011	17	-.2436199360+007	17	-.7986515595-011	17	-.2436199360+007	17	-.8391702220+004
18	.3367397291-009	18	-.1168400079-011	18	-.1667473427+008	18	-.1168400079-011	18	-.1667473427+008	18	-.6092806302+005
19	.4386758709-010	19	-.1612698630-012	19	-.1209567391+009	19	-.1612698630-012	19	-.1209567391+009	19	-.4671545518+006
20	.5427688096-011	20	-.2107136937-013	20	-.9267870643+009	20	-.2107136937-013	20	-.9267870643+009	20	-.3771569801+007
30	.4282657771-021	30	-.2535424902-023	30	-.7760567611+019	30	-.2535424902-023	30	-.7760567611+019	30	-.4745346882+017
31	.3419930568-022	31	-.2093923207-024	31	-.9401616332+020	31	-.2093923207-024	31	-.9401616332+020	31	-.5939507811+018
40	.1210310411-032	40	-.9609514644-035	40	-.2055689970+031	40	-.9609514644-035	40	-.2055689970+031	40	-.1672637226+029
41	.7317031681-034	41	-.5956909658-036	41	-.3317145940+032	41	-.5956909658-036	41	-.3317145940+032	41	-.2765909796+030
50	.2857340736-045	50	-.2843531767-047	50	-.6963743368+043	50	-.2843531767-047	50	-.6963743368+043	50	-.7067998361+041
51	.1390276788-046	51	-.1411495637-048	51	-.1403146994+045	51	-.1411495637-048	51	-.1403146994+045	51	-.1452360990+043
60	.9285248243-059	60	-.1110502070-060	60	-.1785979989+057	60	-.1110502070-060	60	-.1785979989+057	60	-.2171484910+055
61	.3780639189-060	61	-.4597459905-062	61	-.4314543231+058	61	-.4597459905-062	61	-.4314543231+058	61	-.5332445266+056
70	.5781605672-073	70	-.8074532905-075	70	-.2459074613+071	70	-.8074532905-075	70	-.2459074613+071	70	-.3483261607+069
71	.2023977945-074	71	-.2867252988-076	71	-.6925713225+072	71	-.2867252988-076	71	-.6925713225+072	71	-.9949120541+070
80	.8731133596-088	80	-.1394419137-089	80	-.4584448290+087	80	-.1394419137-089	80	-.4584448290+087	80	-.2304458904+084
81	.2680747397-089	81	-.4335057684-091	81	-.1425150755+086	81	-.4335057684-091	81	-.1425150755+086	81	-.7504972984+085
90	.3615404081-103	90	-.6658033382-105	90	-.2899565556+101	90	-.6658033382-105	90	-.2899565556+101	90	-.5269693574+099
91	.1043227301-104	91	-.1896060821-106	91	-.1046828298+103	91	-.1896060821-106	91	-.1046828298+103	91	-.1927161327+101
99	.2223536717-117	99	-.4397641317-119	99	-.4523870102+115	99	-.4397641317-119	99	-.4523870102+115	99	-.9037452665+113
100	.5534557020-119	100	-.1105694445-120	100	-.1799344092+117	100	-.1105694445-120	100	-.1799344092+117	100	-.3630643766+115

REAL X = .5000000000+00I		IMAGINARY X = -.1000000000-00I		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.1917925424+000	0	-.9509189112-003	0	-.5673888254+001	0	-.5673888254+001	0	-.5673888254+001	0	.1804402749-002
1	-.9509685723-001	1	.1537503017-002	1	.180440895+000	1	.180440895+000	1	.180440895+000	1	.1289102555-002
2	.1347328113+000	2	.1759301259-002	2	.1650033563+000	2	.1650033563+000	2	.1650033563+000	2	-.8144122680-003
3	.2298256110+000	3	.4912557498-003	3	.1543976445-001	3	.1543976445-001	3	.1543976445-001	3	-.1773506173-002
4	.1670203816+000	4	.4280368236-003	4	.1866132743+000	4	.1866132743+000	4	.1866132743+000	4	-.1711717610-002
5	.1068112702+000	5	.5884482698-003	5	.3204578834+000	5	.3204578834+000	5	.3204578834+000	5	-.1979380821-002
6	.4796606213-001	6	.3965764825-003	6	.5185818400+000	6	.5185818400+000	6	.5185818400+000	6	-.4052911825-002
7	.1790205465-001	7	.1932239350-003	7	-.1027308434+001	7	-.1027308434+001	7	-.1027308434+001	7	-.1125372256-001
8	.5741046344-002	8	-.7568110549-004	8	-.2563463614+001	8	-.2563463614+001	8	-.2563463614+001	8	-.3587194676-001
9	.1617939468-002	9	-.2505183544-004	9	.7688189061+001	9	.7688189061+001	9	.7688189061+001	9	-.1281418914+000
10	.4072894351-003	10	-.7219197622-005	10	-.2665056408+002	10	-.2665056408+002	10	-.2665056408+002	10	-.5094952560+000
11	.9272995802-004	11	-.1847455723-005	11	-.1042394526+003	11	-.1042394526+003	11	-.1042394526+003	11	-.2235593635+001
12	.1928366210-004	12	.4259525094-006	12	-.4528284326+003	12	-.4528284326+003	12	-.4528284326+003	12	-.1073319342+002
13	.3692226295-005	13	-.8946245526-007	13	-.2159786322+004	13	-.2159786322+004	13	-.2159786322+004	13	-.5595842501+002
14	.6552463392-006	14	-.1726693217-007	14	-.1120936671+005	14	-.1120936671+005	14	-.1120936671+005	14	-.3147666919+003
15	.1093875656-006	15	-.3084523614-008	15	-.6285062925+005	15	-.6285062925+005	15	-.6285062925+005	15	-.1899709219+004
16	.1679212743-007	16	.5130372993-009	16	-.3784394967+006	16	-.3784394967+006	16	-.3784394967+006	16	-.1224272804+005
17	.2446804216-008	17	.7985382187-010	17	-.2434677949+007	17	-.2434677949+007	17	-.2434677949+007	17	-.8389735300+005
18	.3365515177-009	18	-.1168209591-010	18	-.1666306347+008	18	-.1666306347+008	18	-.1666306347+008	18	-.6091217487+006
19	.4383994780-010	19	.1612399522-011	19	-.1208624836+009	19	-.1208624836+009	19	-.1208624836+009	19	-.4670197911+007
20	.5423860645-011	20	-.2106696065-012	20	-.9259876827+009	20	-.9259876827+009	20	-.9259876827+009	20	-.3770372345+008
30	.4275487326-021	30	-.2534108097-022	30	-.7745727082+019	30	-.7745727082+019	30	-.7745727082+019	30	-.4742118475+018
31	.3413798668-022	31	.2092755569-023	31	-.9382446557+020	31	-.9382446557+020	31	-.9382446557+020	31	-.5935208385+019
40	.1206632063-032	40	-.9600276222-034	40	-.2048788425+031	40	-.2048788425+031	40	-.2048788425+031	40	-.1670671839+030
41	.7293636177-034	41	-.5950876292-035	41	-.3305459774+032	41	-.3305459774+032	41	-.3305459774+032	41	-.2762502917+031
50	.2843628098-045	50	.2839166416-046	50	-.6927561398+043	50	-.6927561398+043	50	-.6927561398+043	50	-.7055265865+042
51	.1383329878-046	51	-.1409237512-047	51	-.13955568130+045	51	-.13955568130+045	51	-.13955568130+045	51	-.1449643175+044
60	.9220685028-059	60	-.1108013833-059	60	-.1772712738+057	60	-.1772712738+057	60	-.1772712738+057	60	-.2165927227+056
61	.3753454925-060	61	.4586801057-061	61	-.4281435735+058	61	-.4281435735+058	61	-.4281435735+058	61	-.5318354716+057
70	.5726674627-073	70	-.8049682850-074	70	-.2434350216+071	70	-.2434350216+071	70	-.2434350216+071	70	-.3471248768+070
71	.2004188752-074	71	-.2858168088-075	71	.6854111684+072	71	.6854111684+072	71	.6854111684+072	71	-.9913852058+071
80	.8622567855-088	80	-.138877564-088	80	-.1406520965+086	80	-.1406520965+086	80	-.1406520965+086	80	-.2294159732+085
81	.2646549743-089	81	.4317067802-090	81	-.4523073052+087	81	-.4523073052+087	81	-.4523073052+087	81	-.7470611524+086
90	.3755224548-103	90	-.6822747882-104	90	-.2851778366+101	90	-.2851778366+101	90	-.2851778366+101	90	-.5240064463+100
91	.1026402736-104	91	-.1886083248-105	91	-.1031162749+103	91	-.1031162749+103	91	-.1031162749+103	91	-.1916093848+102
99	.2181056462-117	99	-.4370172020-118	99	-.4433927805+115	99	-.4433927805+115	99	-.4433927805+115	99	-.8976281240+114
100	.54266663579-119	100	-.1098645353-119	100	-.1762855147+117	100	-.1762855147+117	100	-.1762855147+117	100	-.3605582390+116

REAL X = .5000000000+001		IMAGINARY Y = -.1000000000+000		SECOND KIND	
N	FIRST KIND REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL
0	-.1925539029+000	0	-.9533781003-002	0	-.5737759402-001
1	-.9583485657-001	1	.1538701211-001	1	.1810107497+000
2	.1348914098+000	2	.1761273931-001	2	.1657856946+000
3	.2303202175+000	3	.4915434416-002	3	-.1512849902-001
4	.1872403898+000	4	-.4267495133-002	4	-.1864605107+000
5	.1068219770+000	5	-.5890081765-002	5	-.3197505563+000
6	.4788305390-001	6	-.3967215877-002	6	-.5158440797+000
7	.1783039740-001	7	-.1931632027-002	7	-.1018799967+001
8	.5702501951-002	8	-.7559670859-003	8	-.2532618064+001
9	.1602092008-002	9	-.2500064773-003	9	-.7564414954+001
10	.4018683838-003	10	-.7196812120-004	10	-.2610400952+002
11	.9113323976-004	11	-.1839532678-004	11	-.101604905+003
12	.1868594349-004	12	-.4235642428-005	12	-.4390551355+003
13	.3595404996-005	13	-.8883124633-006	13	-.2082195191+004
14	.6347200032-006	14	-.1711784057-006	14	-.1074074603+005
15	.1043999950-006	15	-.3052619002-007	15	-.5983015815+005
16	.1607589144-007	16	-.5067874548-008	16	-.3577465230+006
17	.2327147085-008	17	-.7872389517-009	17	-.2284535083+007
18	.3178641059-009	18	-.1149230026-009	18	-.1551292398+008
19	.410859788-010	19	-.1582615413-010	19	-.1115873416+009
20	.5044674500-011	20	-.2062823973-011	20	-.8474456620+009
30	.3575752053-021	30	-.2404196310-021	30	-.6315102468+019
31	.2816535690-022	31	-.1977684977-022	31	-.7538686878+020
40	.8554495685-033	40	-.8700295443-033	40	-.1400549663+031
41	.5065726917-034	41	-.5363995689-034	41	-.2210905560+032
50	.1371613987-045	50	-.2420939195-045	50	-.3638105879+043
51	.7410203948-047	51	-.1193303904-046	51	-.7090576641+044
60	.3442607248-059	60	-.8745153609-059	60	-.6135617466+056
61	.1330266444-060	61	-.3588858367-060	61	-.1401468833+058
70	.1017965987-073	70	-.5774855067-073	70	-.3733168768+070
71	.3158317186-075	71	-.2028754953-074	71	-.9157540317+071
80	-.2299710760-089	80	-.8870336416-088	80	.6426316775+084
81	-.1251803312-090	81	-.2722078127-089	81	.2969140554+086
90	-.8715169865-104	90	-.3786412055-103	90	.6939415730+100
91	-.2590319971-105	91	-.1030529996-104	91	.2709155397+102
99	-.8968504821-118	99	-.2083674007-117	99	.1834324044+115
100	-.2336194560-119	100	-.5141742899-119	100	.7614531975+116

IMAGINARY BESSEL

0	.1805291374-001
1	.1291550159-001
2	-.8145450777-002
3	-.1774330735-002
4	-.1710867584-001
5	-.1974989026-001
6	-.4038710890-001
7	-.1120276033+000
8	-.3566648784+000
9	-.1272297282+001
10	-.5050797343+001
11	-.2212442967+002
12	-.1060247620+003
13	-.5516753741+003
14	-.3096618282+004
15	-.1864695775+005
16	-.1198842671+006
17	-.8194765101+006
18	-.5933864716+007
19	-.4536855992+008
20	-.3652000744+009
30	-.4426717531+019
31	-.5515760292+020
40	-.1481668503+031
41	-.2435466095+032
50	-.5854827597+043
51	-.1193966689+045
60	-.1654266912+057
61	-.4024498379+058
70	-.2395655836+071
71	-.6765493059+072
80	-.1400922042+084
81	-.4500614532+087
90	-.2761830593+101
91	-.9935848375+102
99	-.4037979583+115
100	-.1590843039+117

REAL X = .500000000000+001		IMAGINARY X = -.500000000000+000		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	SECOND KIND	N	REAL BESSEL	N	IMAGINARY BESSEL	N	IMAGINARY BESSEL
0	-.2111933480+000	0	-.5068234144-001	0	-.7323444346-001	0	.9261474322-001		
1	-.1140512977+000	1	.7839658951-001	1	.1948575227+000	1	.6757170755-001		
2	.1387828787+000	2	.9047924822-001	2	.1849772268+000	2	-.4089744036-001		
3	.2425017471+000	3	.2492770365-001	3	-.7662502083-002	3	-.8974964585-001		
4	.1939028316+000	4	-.2231189208-001	4	.1831579718+000	4	-.8457013834-001		
5	.1070440326+000	5	-.3013453143-001	5	-.3036857399+000	5	-.9361142735-001		
6	.4582634518-001	6	-.2001115938-001	6	-.4579451111+000	6	.1854853101+000		
7	.1607616438-001	7	-.9582463276-002	7	-.8274341693+000	7	-.5017623699+000		
8	.4770914349-002	8	-.3676504492-002	8	.1850741016+001	8	-.1550670492+001		
9	.1221974543-002	9	-.1187838103-002	9	-.4880777918+001	9	-.5341338513+001		
10	.2735230202-003	10	-.3328365617-003	10	-.1450296853+002	10	-.2038178689+002		
11	.5385520024-004	11	-.8249248195-004	11	-.4695300164+002	11	-.8544554439+002		
12	.9328923161-005	12	-.1834366099-004	12	-.1604265930+003	12	-.3901606734+003		
13	.1408607983-005	13	.3699442183-005	13	-.5540892044+003	13	-.1925462044+004		
14	.1801678155-006	14	-.6924176982-006	14	-.1772575585+004	14	-.1020063458+005		
15	.1790250724-007	15	-.1159294178-006	15	-.3767267568+004	15	-.5767035419+005		
16	.8933566891-009	16	-.1823857522-007	16	.1404837824+005	16	-.3461279811+006		
17	-.1464539801-009	17	-.2669573262-008	17	.3217511922+006	17	-.2194975929+007		
18	-.5818498375-010	18	-.3649204429-009	18	.3737180826+007	18	-.1464358060+008		
19	-.1248438821-010	19	-.4673185278-010	19	.3778853371+008	19	-.1023564920+009		
20	-.2139157711-011	20	-.5620422940-011	20	.3671426476+009	20	-.7466490744+009		
30	-.4891140882-021	30	-.9480619255-022	30	.6607469308+019	30	-.6266307893+018		
31	-.3981745394-022	31	-.3615234862-023	31	.8001129594+020	31	.5228611964+018		
40	-.1014549600-032	40	.1076307234-032	40	.1023220608+031	40	.1324548276+031		
41	-.5477561914-034	41	.7123933605-034	41	.1421402165+032	41	.2280882288+032		
50	.8960468154-046	50	.3557905285-045	50	.1827104880+043	50	.5077860142+043		
51	.6098701718-047	51	.1687227255-046	51	.4663115281+044	51	.9763658440+044		
60	.1187919690-058	60	.3981835046-059	60	-.1284153115+057	60	.2931588970+056		
61	.4999235230-060	61	.1135938416-060	61	-.3141842563+058	61	.3929557684+057		
70	.6394677216-073	70	-.5130188076-073	70	-.1232679397+071	70	-.1207983459+071		
71	.2058495451-074	71	-.2020273865-074	71	.3099583967+072	71	-.3713053698+072		
80	-.1352774753-088	80	.1294059131-087	80	.1923079908+085	80	-.9322024058+085		
81	-.8133936126-090	81	-.3931479939-089	81	.9099866213+086	81	-.2907666991+087		
90	-.5332174212-103	90	-.2696971191-103	90	.1718822387+101	90	-.6645094634+100		
91	-.1531774156-104	91	-.5913956303-105	91	.6394083637+102	91	-.1763315165+102		
99	-.3310242356-117	99	.1518039651-117	99	.2373132415+115	99	.1388510782+115		
100	-.7861018148-119	100	.4603419752-119	100	.8708015675+116	100	.6403789615+116		

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+001		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND		SECOND KIND		REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	-.2717356636+000	0	-.1210191605+000	0	-.1275191184+000	0	.1998819668+000
1	-.1751213937+000	1	.1661576796+000	1	.2395249883+000	1	.1545534188+000
2	.1515320504+000	2	.1966730456+000	2	.2478735248+000	2	-.8307903420-001
3	.2830035487+000	3	.5209179703-001	3	.1479167682-001	3	-.1867691200+000
4	.2154095506+000	4	-.5035620958-001	4	-.1776776584+000	4	-.1643585605+000
5	.1072516692+000	5	-.6468193070-001	5	-.2654173530+000	5	-.1592014241+000
6	.3883441250-001	6	-.4109524533-001	6	-.3164276783+000	6	-.2847056399+000
7	.1038198475-001	7	-.1863897638-001	7	-.3932990227+000	7	-.7107765148+000
8	.1866876052-002	8	-.6691426101-002	8	-.3791792054+000	8	-.1986745281+001
9	.898863580-004	9	-.1983497685-002	9	.4427004580+000	9	-.6032277154+001
10	-.6895772853-004	10	-.5002814367-003	10	.6404941107+001	10	-.1973075553+002
11	-.4506753292-004	11	-.1087201286-003	11	.4135978732+002	11	-.6847639850+002
12	-.1427393790-004	12	-.2046348836-004	12	.2371078553+003	12	-.2465581183+003
13	-.3544198962-005	13	-.3319659508-005	13	.1335156939+004	13	-.8889108477+003
14	-.7512949096-006	14	-.4537195526-006	14	.7621133668+004	14	-.2981912155+004
15	-.1396431485-006	15	-.4868231845-007	15	.4449279823+005	15	-.7240488616+004
16	-.2314878803-007	16	-.2999561339-008	16	.2662572845+006	16	.1286656637+005
17	-.3455486191-008	17	-.2654866786-009	17	.1628886250+007	17	.4268356363+006
18	-.4666780178-009	18	-.1348748796-009	18	.1012281373+008	18	.5052797091+007
19	-.5704472515-010	19	.3008124714-010	19	.6320830791+008	19	.4993130167+008
20	-.6279201533-011	20	.5167386200-011	20	.3890425431+009	20	.4642444273+009
30	.7031122326-021	30	.3320031207-021	30	.4059617025+019	30	.1033486446+019
31	.6147172535-022	31	.1512620635-022	31	-.4971875025+020	31	.2440583937+019
40	.4964311021-034	40	-.2667754637-032	40	.1597809680+030	40	-.9000531094+030
41	-.2948250412-034	41	-.1618161119-033	41	.5294291468+031	41	-.1346305879+032
50	-.7061467356-045	50	.2955190402-045	50	.2115246732+043	50	.1421684941+043
51	-.3146002962-046	51	.2127789449-046	51	.3544035246+044	51	.3577998075+044
60	.2184993388-058	60	.2090711245-058	60	-.4534815249+056	60	.2689626687+056
61	.1060281155-059	61	.6726004093-060	61	-.1188031127+058	61	.4597514111+057
70	.7947728844-073	70	-.2147352377-072	70	-.9586984075+069	70	-.6013309872+070
71	.1274855437-074	71	-.8073980591-074	71	.6693121447+070	71	-.1680426728+072
80	-.4199378365-087	80	.2226883230-088	80	.2812076048+085	80	.7168436030+084
81	-.1275502357-088	81	.3267067086-089	81	.8253425460+086	81	.3960299739+086
90	.9912704288-103	90	.2003275016-102	90	-.2962288506+100	90	.3846304467+100
91	.3807234924-104	91	.4934124877-104	91	-.1298253584+102	91	.1131347958+102
99	.122008507-116	99	-.9620260310-117	99	-.4121279316+114	99	-.4831905809+114
100	.2556995145-118	100	-.3002463246-118	100	-.1206062898+116	100	-.2163552094+116

REAL X = .5000000000+001		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		IMAGINARY X = -.3000000000+001		IMAGINARY BESSEL		SECOND KIND		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL
0	-.1168986779+001	-.1269730527+001	0	-.1267594864+001	-.1269730527+001	0	-.1267594864+001	-.1269730527+001	0	-.1267594864+001	-.1269730527+001	0	-.1160719771+001
1	-.1327469638+001	.8708488017+000	1	.8708488017+000	.1302539506+001	1	.8801593195+000	.8708488017+000	1	.8801593195+000	.1302539506+001	1	.1328578005+001
2	.3528196093+000	.1302539506+001	2	.1302539506+001	.2425565448+000	2	.1304218033+001	.1302539506+001	2	.1304218033+001	.2425565448+000	2	-.3415990670+000
3	.1012246039+001	.2425565448+000	3	.2425565448+000	-.4276381560+000	3	.2295299988+000	.2425565448+000	3	.2295299988+000	-.4276381560+000	3	-.1004363481+001
4	.5393840356+000	-.4276381560+000	4	-.4276381560+000	-.3802138407+000	4	-.4475950016+000	-.4276381560+000	4	-.4475950016+000	-.3802138407+000	4	-.5505359879+000
5	.4123960250+001	-.3802138407+000	5	-.3802138407+000	-.1473869721+000	5	-.9740112474+001	-.3802138407+000	5	-.9740112474+001	-.1473869721+000	5	-.7973018056+001
6	-.7031687461+001	-.1473869721+000	6	-.1473869721+000	-.2043869000+001	6	.1433266344+000	-.1473869721+000	6	.1433266344+000	-.2043869000+001	6	.4813191487+001
7	-.2441776512+001	-.2043869000+001	7	-.2043869000+001	.0235263028+002	7	.3341215956+000	-.2043869000+001	7	.3341215956+000	.0235263028+002	7	.6002225708+001
8	-.4580432732+002	.0235263028+002	8	.0235263028+002	.6900159895+002	8	.2810266462+000	.0235263028+002	8	.2810266462+000	.6900159895+002	8	.2739671389+000
9	.5158207487+004	.6900159895+002	9	.6900159895+002	.2365634746+002	9	-.1436736703+001	.6900159895+002	9	-.1436736703+001	.2365634746+002	9	.1126077983+001
10	.3563482875+003	.2365634746+002	10	.2365634746+002	.5010553698+003	10	-.1091342789+002	.2365634746+002	10	-.1091342789+002	.5010553698+003	10	.3343560133+001
11	.1368659413+003	.5010553698+003	11	.5010553698+003	.5228876519+005	11	-.4874347334+002	.5010553698+003	11	-.4874347334+002	.5228876519+005	11	.6537433832+001
12	.3149245566+004	.5228876519+005	12	.5228876519+005	-.6907097917+005	12	-.1608357597+003	.5228876519+005	12	-.1608357597+003	-.6907097917+005	12	-.3379490537+001
13	.4632777718+005	-.6907097917+005	13	-.6907097917+005	-.4687862561+005	13	-.2885386218+003	-.6907097917+005	13	-.2885386218+003	-.4687862561+005	13	-.1264843991+003
14	.2603917480+006	-.4687862561+005	14	-.4687862561+005	.1230796491+005	14	.1187199884+004	-.4687862561+005	14	.1187199884+004	.1230796491+005	14	-.8820055215+003
15	.7910728697+007	.1230796491+005	15	.1230796491+005	-.2108734272+006	15	.1766311489+005	.1230796491+005	15	.1766311489+005	-.2108734272+006	15	-.4373329151+004
16	-.3028005570+007	-.2108734272+006	16	-.2108734272+006	.2290165251+007	16	.1305597123+006	-.2108734272+006	16	.1305597123+006	.2290165251+007	16	-.1580788946+005
17	-.0024881682+008	.2290165251+007	17	.2290165251+007	.5174416053+009	17	.7189122384+006	.2290165251+007	17	.7189122384+006	.5174416053+009	17	-.2091059398+005
18	-.8121940937+009	.2290165251+007	18	.2290165251+007	.4166947546+009	18	.2764607975+007	.2290165251+007	18	.2764607975+007	.4166947546+009	18	.3113789436+006
19	.6721051075+010	.4166947546+009	19	.4166947546+009	.1124053756+009	19	.1158127605+007	.4166947546+009	19	.1158127605+007	.1124053756+009	19	.4062215389+007
20	-.4475743520+019	.1124053756+009	20	.1124053756+009	.1217510840+019	20	.4303994392+017	.1124053756+009	20	.4303994392+017	.1217510840+019	20	.3250012499+008
30	-.2960758790+020	.1217510840+019	30	.1217510840+019	.3151553011+020	30	.1465888857+018	.1217510840+019	30	.1465888857+018	.3151553011+020	30	.4340288962+017
31	-.5089845728+030	.3151553011+020	31	.3151553011+020	.3159226566+030	31	.3550326202+028	.3151553011+020	31	.3550326202+028	.3159226566+030	31	.6195622275+018
40	-.4217725530+071	.3159226566+030	40	.3159226566+030	.4555875537+033	40	.4268661310+029	.3159226566+030	40	.4268661310+029	.4555875537+033	40	-.8636590276+026
41	-.1115155080+042	.4555875537+033	41	.4555875537+033	.6414000336+042	41	.1697813969+040	.4555875537+033	41	.1697813969+040	.6414000336+042	41	.2448737625+029
50	-.2419045485+043	.6414000336+042	50	.6414000336+042	-.2787229238+043	50	.4293571779+041	.6414000336+042	50	.4293571779+041	-.2787229238+043	50	-.1990982329+040
51	.6171684998+055	-.2787229238+043	51	-.2787229238+043	-.7575553189+055	51	-.2133933092+052	-.2787229238+043	51	-.2133933092+052	-.7575553189+055	51	-.1428909025+041
60	.6528210115+057	-.7575553189+055	60	-.7575553189+055	-.4590825792+056	60	.1160018365+054	-.7575553189+055	60	.1160018365+054	-.4590825792+056	60	-.1437922965+053
61	.2915311454+068	-.4590825792+056	61	-.4590825792+056	-.7117821348+070	61	.3658963140+066	-.4590825792+056	61	.3658963140+066	-.7117821348+070	61	-.2780985554+054
70	.9692940682+070	-.7117821348+070	70	-.7117821348+070	.6173922764+070	70	-.5164827824+080	-.7117821348+070	70	-.5164827824+080	.6173922764+070	70	-.2307609190+066
71	.1314419735+082	.6173922764+070	71	.6173922764+070	.1468820082+082	71	.2080112619+084	.6173922764+070	71	.2080112619+084	.1468820082+082	71	-.9336700770+067
80	.6741639933+084	.1468820082+082	80	.1468820082+082	.3956919092+097	80	.1171945722+098	.1468820082+082	80	.1171945722+098	.3956919092+097	80	.1613061055+080
81	-.5533276479+098	.3956919092+097	81	.3956919092+097	.1171945722+098	81	.1835124033+112	.3956919092+097	81	.1835124033+112	.1171945722+098	81	-.3532777226+081
90	.4987677469+099	.1171945722+098	90	.1171945722+098	.1431084094+112	90	.7890071066+108	.1171945722+098	90	.7890071066+108	.1431084094+112	90	.2186733643+095
91	-.9267424030+111	.1431084094+112	91	.1431084094+112		91		.1431084094+112	91			91	.4337824932+096
99	-.2277778765+112		99			99			99			99	.4932411010+108
100			100			100			100			100	.2828811016+110

REAL X = .5000000000+001		IMAGINARY X = -.1000000000+002		SECOND KIND	
N	FIRST KIND REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL
0	-.1725112391+003	0	-.9698300194+003	0	-.9698300165+003
1	-.8991440645+003	1	.1199171364+003	1	.1199171395+003
2	.3583383861+002	2	.7684255003+003	2	.7684254970+003
3	.5989406321+003	3	.4810149910+002	3	.4810149376+002
4	.1049326989+003	4	.4195503266+003	4	.4195503227+003
5	-.2590886253+003	5	-.1235880735+003	5	-.1235880611+003
6	-.1101741893+003	6	.1371735840+003	6	.1371735824+003
7	.5913751947+002	7	.8033718029+002	7	.8033714580+002
8	.4925208466+002	8	.1800625249+002	8	-.1800627800+002
9	-.1157599523+001	9	-.2559859683+002	9	-.2559850001+002
10	-.1122199236+002	10	-.3208230863+001	10	-.3208010303+001
11	-.2879047208+001	11	.4050735743+001	11	.4050580551+001
12	.1119915160+001	12	.1637460883+001	12	.1636044572+001
13	.7240406019+000	13	-.1734445402+000	13	-.1748974760+000
14	.3668889711+001	14	-.2608532866+000	14	-.2538587394+000
15	-.7630185637+001	15	-.4402703091+001	15	-.1866597102+001
16	-.2211616236+001	16	.1703116445+001	16	.1261934112+001
17	.2146247909+002	17	.8121499345+002	17	-.2451818802+000
18	.2380711267+002	18	.3484287782+003	18	-.5956289739+000
19	.3458555834+003	19	-.5589194028+003	19	.1355387055+001
20	-.9734802035+004	20	-.1412736265+003	20	.1158504930+002
30	.1521244069+010	30	-.2472313318+010	30	.2348954821+008
31	-.2765650705+011	31	-.4233176231+011	31	.2694929991+009
40	.2022844302+018	40	.6089570789+019	40	-.3610525330+016
41	.1903073911+019	41	-.2074545434+019	41	.1238146302+017
50	-.1417724794+028	50	.1377956816+027	50	-.5250509948+025
51	.1267372484+028	51	.7894893915+029	51	-.4941704863+026
60	-.1297720173+037	60	.6617389849+039	60	.2327053472+035
61	-.4644986136+039	61	.1079664736+038	61	-.3869127334+036
70	-.4346071517+049	70	-.2348320814+048	70	.2525594058+046
71	-.1790077902+049	71	-.5067596655+050	71	.2272775223+047
80	.1030939145+059	80	-.3204981362+060	80	-.8648644133+056
81	.1165920639+061	81	-.7291838755+061	81	.5971933071+058
90	.9690479405+072	90	.1307134022+071	90	-.3444337871+069
91	.8679605209+073	91	.4353600707+074	91	-.2780405672+070
99	-.9374805670+083	99	-.6363123003+083	99	.3456986895+080
100	-.5480144073+084	100	.3088912906+084	100	-.3149496482+080

IMAGINARY BESSEL

.1725112391+003
.8991440645+003
-.3583383861+002
-.5989406321+003
-.1049326989+003
.2590886253+003
.1101742097+003
-.5913751412+002
-.4925214326+002
.1157518617+001
.1122213739+002
.2879619478+001
-.1119819252+001
-.7273495862+000
-.4349684944+001
.8794096542+001
.1062520384+000
.8562678589+001
-.6728838027+001
-.2844556576+001
.4641831546+000
-.4239687550+008
.1844088388+008
-.3612035942+016
-.3533547135+017
.3479243436+025
-.2906760539+026
.5126894183+035
.4732400245+036
-.7552034799+045
.2443757765+047
-.504241545+057
-.4350964001+058
.2038021165+068
-.4859639346+070
.1914753889+080
.7040381810+081

REAL X = .500000000+001		IMAGINARY X = -.100000000+003	
N	FIRST KIND	IMAGINARY BESSEL	SECOND KIND
	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	.3160260071+041	-.1304651691+042	0
1	-.1291480090+042	-.3135243271+041	1
2	-.3085761221+041	.1265534794+042	2
3	.1227591631+042	.3012899439+041	3
4	.2918242764+041	-.1178765787+042	4
5	-.1120457336+042	-.2803824737+041	5
6	-.2672062646+041	.1054284580+042	6
7	.9820096197+041	.2525680452+041	7
8	.2367622401+041	-.9054609354+041	8
9	-.8264576615+041	-.2200960623+041	9
10	-.2028800415+041	.7467398698+041	10
11	.6679084215+041	.1854187156+041	11
12	.1680018792+041	-.5913770247+041	12
13	-.5183380678+041	-.1508967634+041	13
14	-.1343414680+041	.4497427259+041	14
15	.3862948340+041	.1185398994+041	15
16	.1036583769+041	-.3284571728+041	16
17	-.2764681705+041	-.8982396822+040	17
18	-.7712451561+040	.2303666200+041	18
19	.1900218334+041	.6561021430+040	19
20	.5529652775+040	-.1551667056+041	20
21	-.5913438426+039	.1174032281+040	21
22	.858002679+039	.4483146858+039	22
23	.2386906382+038	-.3241300697+038	23
24	.2141393007+038	-.1640847309+038	24
25	.3637718313+036	.3242421529+036	25
26	-.1932804186+036	.2270705773+036	26
27	-.2334373730+034	-.8686183912+033	27
28	.1043143574+034	-.8507230354+033	28
29	.1177774385+036	-.8760421885+035	29
30	-.1624399796+036	-.2320109680+036	30
31	-.1419917773+039	.5029763564+038	31
32	.9575277816+038	.2997858908+039	32
33	.3364680709+042	-.5906535472+040	33
34	.1206889256+041	-.7582669499+042	34
35	.1879490343+045	-.6282562838+045	35
36	-.1494135545+046	-.5048906699+045	36

REAL X = .1000000000+002		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	-.544021109-001	0	.0000000000	0	.8390715291-001	0	.0000000000	0	.0000000000	0	.0000000000
1	.7846694180-001	1	.0000000000	1	.6279282638-001	1	.0000000000	1	.6506930499-001	1	.0000000000
2	.7794219363-001	2	.0000000000	2	.0000000000	2	.0000000000	2	-.9532747888-001	2	.0000000000
3	-.3949584498-001	3	.0000000000	3	.0000000000	3	.0000000000	3	-.1659930220-002	3	.0000000000
4	-.1055892851+000	4	.0000000000	4	.0000000000	4	.0000000000	4	.93833554168-001	4	.0000000000
5	-.5553451162-001	5	.0000000000	5	.0000000000	5	.0000000000	5	.1048768261+000	5	.0000000000
6	.4450132233-001	6	.0000000000	6	.0000000000	6	.0000000000	6	.4250633221-001	6	.0000000000
7	.1133862307+000	7	.0000000000	7	.0000000000	7	.0000000000	7	-.4111732775-001	7	.0000000000
8	.1255780236+000	8	.0000000000	8	.0000000000	8	.0000000000	8	-.1124057894+000	8	.0000000000
9	.1000964095+000	9	.0000000000	9	.0000000000	9	.0000000000	9	-.1724536721+000	9	.0000000000
10	.6460515449-001	10	.0000000000	10	.0000000000	10	.0000000000	10	-.2497469220+000	10	.0000000000
11	.5557441489-001	11	.0000000000	11	.0000000000	11	.0000000000	11	-.4019642485+000	11	.0000000000
12	.1721509974-001	12	.0000000000	12	.0000000000	12	.0000000000	12	-.7551636993+000	12	.0000000000
13	.7465584477-002	13	.0000000000	13	.0000000000	13	.0000000000	13	-.1636977739+001	13	.0000000000
14	.2941078342-002	14	.0000000000	14	.0000000000	14	.0000000000	14	-.3992071745+001	14	.0000000000
15	.1063542715-002	15	.0000000000	15	.0000000000	15	.0000000000	15	-.1073844467+002	15	.0000000000
16	.3559040735-003	16	.0000000000	16	.0000000000	16	.0000000000	16	-.3144479567+002	16	.0000000000
17	.1109407280-003	17	.0000000000	17	.0000000000	17	.0000000000	17	-.9931834017+002	17	.0000000000
18	.3238847439-004	18	.0000000000	18	.0000000000	18	.0000000000	18	-.3360330630+003	18	.0000000000
19	.8896627269-005	19	.0000000000	19	.0000000000	19	.0000000000	19	-.1211210605+004	19	.0000000000
20	.2308371961-005	20	.0000000000	20	.0000000000	20	.0000000000	20	-.6908318646+010	20	.0000000000
30	.2512057385-012	30	.0000000000	30	.0000000000	30	.0000000000	30	-.4093269153+011	30	.0000000000
31	.4089663774-013	31	.0000000000	31	.0000000000	31	.0000000000	31	-.1510304919+019	31	.0000000000
40	.8435671634-021	40	.0000000000	40	.0000000000	40	.0000000000	40	-.1203903628+020	40	.0000000000
41	.1031165119-021	41	.0000000000	41	.0000000000	41	.0000000000	41	-.4528227272+028	41	.0000000000
50	.2230696023-030	50	.0000000000	50	.0000000000	50	.0000000000	50	-.4527283158+029	50	.0000000000
51	.2186121214-031	51	.0000000000	51	.0000000000	51	.0000000000	51	-.1063059842+039	51	.0000000000
60	.7882678576-041	60	.0000000000	60	.0000000000	60	.0000000000	60	-.1277304015+040	60	.0000000000
61	.6450906511-042	61	.0000000000	61	.0000000000	61	.0000000000	61	-.1365335509+050	61	.0000000000
70	.5247541705-052	70	.0000000000	70	.0000000000	70	.0000000000	70	-.1915248513+051	70	.0000000000
71	.3687477631-053	71	.0000000000	71	.0000000000	71	.0000000000	71	-.7467487328+061	71	.0000000000
80	.8382570331-064	80	.0000000000	80	.0000000000	80	.0000000000	80	-.1197549959+063	80	.0000000000
81	.5161944294-065	81	.0000000000	81	.0000000000	81	.0000000000	81	-.1444906012+074	81	.0000000000
90	.3847244364-076	90	.0000000000	90	.0000000000	90	.0000000000	90	-.2507192139+075	90	.0000000000
91	.2108565657-077	91	.0000000000	91	.0000000000	91	.0000000000	91	-.4319200281+085	91	.0000000000
99	.1169360214-087	99	.0000000000	99	.0000000000	99	.0000000000	99	-.8573226309+086	99	.0000000000
100	.5832040182-089	100	.0000000000	100	.0000000000	100	.0000000000	100		100	.0000000000

REAL X = .1000000000+002 IMAGINARY X = -.1000000000-002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	IMAGINARY X	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5440214614-001	.7846695228-004	0	.8390718058-001	.6279283901-004
1	.7846697324-001	.7009551271-004	1	.6279286428-001	-.7134859656-004
2	.7794223577-001	-.5508428950-004	2	-.6506932734-001	-.8231363186-004
3	-.3949585299-001	-.9374054543-004	3	-.9532752351-001	.2693831471-004
4	-.1055893260+000	-.1329880133-004	4	-.1659940334-002	.9449752539-004
5	-.5553453829-001	.7226858511-004	5	.9383356872-001	.5796006266-004
6	.4450132657-001	.8668544501-004	6	.1048768585+000	-.2041976464-004
7	.1133362510+000	.4620766466-004	7	.4250634865-001	-.7087176496-004
8	.1255789413+000	-.3660112264-006	8	-.4111732556-001	-.7951192950-004
9	.1000964171+000	-.2548161694-004	9	-.1124057879+000	-.7128845911-004
10	.6460515417-001	-.2903074142-004	10	-.1724536557+000	-.7729324095-004
11	.3557441139-001	-.2191585719-004	11	-.2497468693+000	-.1272426126-003
12	.1721599624-001	-.1319361507-004	12	-.4019641087+000	-.2728065445-003
13	.7455582092-002	-.6764181143-005	13	-.7551633241+000	-.6552647679-003
14	.2941077030-002	-.3053966687-005	14	-.1636976669+001	-.1700302407-002
15	.1063542094-002	-.1239409832-005	15	-.3992068476+001	-.4750335391-002
16	.3559038133-003	-.4585057063-006	16	-.1073843401+002	-.1426327837-001
17	.1109406293-003	-.1562107269-006	17	-.3144475869+002	-.4586216596-001
18	.3238844014-004	-.4940261252-007	18	-.9931820427+002	-.1572599663+000
19	.8896616274-005	-.1459521485-007	19	-.3360325352+003	-.5727474388+000
20	.2308368673-005	-.4049044520-008	20	-.1211208447+004	-.2207507710+001
20	.2512047673-012	-.7127197321-015	30	-.6908287956+010	-.2020770338+008
31	.4089646737-013	-.1203363433-015	31	-.4093249656+011	-.1240760828+009
40	.8435609951-021	-.3271144607-023	40	-.1510292690+019	-.5997801553+016
41	.1031157167-021	-.4104768146-024	41	-.1203893574+020	-.4905350935+017
50	.2230669791-030	-.1093908707-032	50	-.4528169539+028	-.2263159503+026
51	.2186004413-031	-.1093908707-033	51	-.4527223081+029	-.2308894341+027
60	.7882542930-041	-.4665072252-043	60	-.1063040280+039	-.6394640537+036
61	.6450791633-042	-.3883094276-044	61	-.1277279719+040	-.7812927709+037
70	.5247417564-052	-.3636376586-054	70	-.1365301404+050	-.9595053406+047
71	.3687387816-053	-.2592537373-055	71	-.1915199151+051	-.1365313508+049
80	.8382309583-064	-.6654369590-066	80	-.7467243115+061	-.6001442647+059
81	.5161779597-065	-.4149732991-067	81	-.1197509813+063	-.3745123172+060
90	.3847092186-076	-.3441389923-078	90	-.1444846259+074	-.1306748312+072
91	.2108480355-077	-.1907338815-079	91	-.2607071923+075	-.2384124168+073
99	.1169304067-087	-.1151815515-089	99	-.4318984345+085	-.4297144964+083
100	.5831754385-089	-.58033148663-091	100	-.8572789036+086	-.8615617144+084

REAL X = .1000000000+002		IMAGINARY Y = -.1000000J00-001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.5440561590-001	0	.7846798978-003	0	.8391072036-001	0	.7846798978-003	0	.8391072036-001	0	.6279408983-003
1	.7847008574-001	1	.7009682535-003	1	.7009682535-003	1	.7009682535-003	1	.6279661675-001	1	-.7124948071-003
2	.7794640779-001	2	-.5508486298-003	2	-.5508486298-003	2	-.5508486298-003	2	-.6507154013-001	2	-.8231501602-003
3	-.3949664540-001	3	-.9374191280-003	3	-.9374191280-003	3	-.9374191280-003	3	-.9533194270-001	3	.2693844010-003
4	-.1055933757+030	4	-.1329917277-003	4	-.1329917277-003	4	-.1329917277-003	4	-.1660941601-002	4	.9449867592-003
5	-.5553717803-001	5	.7226927497-003	5	.7226927497-003	5	.7226927497-003	5	.9383624627-001	5	.5796079856-003
6	.4450174602-001	6	.8668621227-003	6	.8668621227-003	6	.8668621227-003	6	.1048600717+000	6	-.2041988447-003
7	.1133882631+030	7	.4620790948-003	7	.4620790948-003	7	.4620790948-003	7	.4250797607-001	7	-.7087222616-003
8	.1255797854+000	8	-.3661948954-005	8	-.3661948954-005	8	-.3661948954-005	8	-.4111710829-001	8	-.7951215843-003
9	.1000971648+000	9	-.2548189801-003	9	-.2548189801-003	9	-.2548189801-003	9	-.1124056385+000	9	-.7128820941-003
10	.6460512177-001	10	-.2903092061-003	10	-.2903092061-003	10	-.2903092061-003	10	-.1724520369+000	10	-.7729235398-003
11	.3557406485-001	11	-.2191591230-003	11	-.2191591230-003	11	-.2191591230-003	11	-.2497416537+000	11	-.1272404632-002
12	.1721564963-001	12	-.1313360054-003	12	-.1313360054-003	12	-.1313360054-003	12	-.4019502656+000	12	-.2728009416-002
13	.7465346029-002	13	-.6764147967-004	13	-.6764147967-004	13	-.6764147967-004	13	-.7551261855+000	13	-.6552486746-002
14	.2940947122-002	14	-.3053939292-004	14	-.3053939292-004	14	-.3053939292-004	14	-.1636870705+001	14	-.1700252577-001
15	.1063480661-002	15	-.123393311-004	15	-.123393311-004	15	-.123393311-004	15	-.3991744804+001	15	-.4750170898-001
16	.3558780510-003	16	-.4584974547-005	16	-.4584974547-005	16	-.4584974547-005	16	-.1073737856+002	16	-.1426270213+000
17	.1109308633-003	17	-.1562071371-005	17	-.1562071371-005	17	-.1562071371-005	17	-.3144109833+002	17	-.4586003045+000
18	.3238504945-004	18	-.4940121516-006	18	-.4940121516-006	18	-.4940121516-006	18	-.9930475047+002	18	-.1572516173+001
19	.8895527709-005	19	-.1459471987-006	19	-.1459471987-006	19	-.1459471987-006	19	-.3359802927+003	19	-.5727130928+001
20	.2308043118-005	20	-.4048883094-007	20	-.4048883094-007	20	-.4048883094-007	20	-.1210994745+004	20	-.2207359394+002
30	.2511086206-012	30	-.7126360119-014	30	-.7126360119-014	30	-.7126360119-014	30	-.6905249879+010	30	-.2020451487+009
31	.4087960221-013	31	-.1203210562-014	31	-.1203210562-014	31	-.1203210562-014	31	-.4091319657+011	31	-.1240551548+010
40	.8429503952-021	40	-.3270398739-022	40	-.3270398739-022	40	-.3270398739-022	40	-.1509082189+019	40	-.5996113238+017
41	.1030369983-021	41	-.4103779376-023	41	-.4103779376-023	41	-.4103779376-023	41	-.1202878570+020	41	-.4903900547+018
50	.2228073240-030	50	-.1093076419-031	50	-.1093076419-031	50	-.1093076419-031	50	-.45224455207+028	50	-.2262167805+027
51	.2183441617-031	51	-.1093484588-032	51	-.1093484588-032	51	-.1093484588-032	51	-.4521276892+029	51	-.2307842232+028
60	.7869117540-041	60	-.4662515566-042	60	-.4662515566-042	60	-.4662515566-042	60	-.1061104290+039	60	-.6390625510+037
61	.6439421882-042	61	-.3880890572-043	61	-.3880890572-043	61	-.3880890572-043	61	-.1274875191+040	61	-.7807859813+038
70	.5235132189-052	70	-.3633621953-053	70	-.3633621953-053	70	-.3633621953-053	70	-.1361916577+050	70	-.9586892631+048
71	.3678499503-053	71	-.2590514463-054	71	-.2590514463-054	71	-.2590514463-054	71	-.1910314609+051	71	-.1364119410+050
80	.8356508204-064	80	-.6647715548-065	80	-.6647715548-065	80	-.6647715548-065	80	-.7443079877+061	80	-.5994804373+060
81	.5145482868-065	81	-.4145475341-066	81	-.4145475341-066	81	-.4145475341-066	81	-.1193537676+063	81	-.9734077229+061
90	.3832035983-076	90	-.3437001043-077	90	-.3437001043-077	90	-.3437001043-077	90	-.1438934993+074	90	-.1304925868+073
91	.2100040860-077	91	-.1904850366-078	91	-.1904850366-078	91	-.1904850366-078	91	-.2596168527+075	91	-.2380726066+074
99	.1163749841-087	99	-.1150029692-088	99	-.1150029692-088	99	-.1150029692-088	99	-.4297625199+085	99	-.4289915193+084
100	.5803482698-089	100	-.5793958704-090	100	-.5793958704-090	100	-.5793958704-090	100	-.85295537260+086	100	-.8600832020+085

REAL X = .1000000000+002		IMAGINARY X = -.1000000000+000		SECOND KIND	
N	FIRST KIND	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5475292017-001	.7857177608-002	0	.8426411916-001	.6291923854-002
1	.7078151823-001	.7022815605-002	1	.6317219824-001	.7143792442-002
2	.7036394609-001	-.5514222668-002	2	-.6529292543-001	-.8245349649-002
3	-.3957589463-001	-.9387870703-002	3	-.9577417401-001	.2695097960-002
4	-.1059985938+000	-.1553633301-002	4	-.1761156648-002	.9461377330-002
5	-.5500129934-001	.7233828792-002	5	.9410414763-001	.5803441473-002
6	.4454373786-001	.8676296413-002	6	.1052015371+000	-.2043187905-002
7	.1135895879+000	.4623239431-002	7	.4267073462-001	-.7091836927-002
8	.1257542656+000	-.3845723297-004	8	-.4109546828-001	-.7953506797-002
9	.1001719412+000	-.2551001436-002	9	-.1123908491+000	-.7126325773-002
10	.6460185614-001	-.2904884278-002	10	-.1722904062+000	-.7720370915-002
11	.3553938812-001	-.2192144255-002	11	-.2492207149+000	-.1270256879-001
12	.1718097752-001	-.1319214572-002	12	-.4005677933+000	-.2722411929-001
13	.7441737942-002	-.6760829134-003	13	-.7514181014+000	-.6536411761-001
14	.2927958265-002	-.3051199367-003	14	-.1626293563+001	-.1695276118+000
15	.1057339598-002	-.1237741277-003	15	-.3959445845+001	-.4733745961+000
16	.3533033601-003	-.4576724286-004	16	-.1063208810+002	-.1420517453+001
17	.109950798-003	-.1558482697-004	17	-.3107806427+002	-.4564688099+001
18	.3204635323-004	-.4926154398-005	18	-.9796351321+002	-.1564184691+002
19	.8766820672-005	-.1454525299-005	19	-.3307740013+003	-.5692864612+002
20	.2275541684-005	-.4032753191-006	20	-.1189706108+004	-.2192565692+003
30	.2415461235-012	-.7042888498-013	30	-.6604029117+010	-.1988740726+010
31	.3920302277-013	-.1187972948-013	31	-.3900071340+011	-.1219745236+011
40	.7025510580-021	-.3196268188-021	40	-.1389830603+019	-.5828885271+018
41	.9525528390-022	-.4005543729-022	41	-.1102959562+020	-.4760286600+019
50	.1973048556-030	-.1052864978-030	50	-.3964054747+029	-.2164412535+028
51	.1923102146-031	-.1051526872-031	51	-.3940743975+029	-.2204189083+029
60	.6562076584-041	-.4410768393-041	60	-.8737641756+038	-.5997196530+038
61	.5333586611-042	-.3664024068-042	61	-.1042445484+040	-.7311583726+039
70	.4051573828-052	-.3364050324-052	70	-.1038119114+050	-.8792763310+049
71	.2823189251-053	-.2392683132-053	71	-.1443632649+051	-.1248008264+051
80	.5961008953-064	-.6001194842-064	80	-.5161904798+061	-.5353946980+061
81	.3596574341-065	-.3732112460-065	81	-.8190709098+062	-.8668611121+062
90	.2418983223-076	-.3014040304-076	90	-.8891388234+073	-.113056245+074
91	.1309157445-077	-.1665245394-077	91	-.1583672536+075	-.2055908131+075
99	.6497402909-088	-.9792415035-088	99	-.2340470492+085	-.3604320744+085
100	.31914117748-089	-.4916407855-089	100	-.4573255716+086	-.7200227630+085

REAL X = .1000000000+002		IMAGINARY X = -.5000000000+000	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	-.6337298175-001	.4055497439-001	.9296603496-001
1	.8644227133-001	.3672629570-001	.7248182819-001
2	.6869147248-001	-.2827116114-001	-.7072509136-001
3	-.4150210647-001	-.4861486803-001	-.1066857419+000
4	-.1159732223+000	-.7123333968-001	-.4244455828+002
5	-.6229375388-001	.3701407444-001	.1006885295+000
6	.4559027626-001	.4431966855-001	.1130843120+000
7	.1185397196-000	.2341379297-001	.4662650831-001
8	.1300242325+000	-.4182536688-003	-.4062378879-001
9	.1019857135+000	-.1309855255-001	-.1121189432+000
10	.6450665850-001	-.1474245162-001	-.1685225479+000
11	.3468455108-001	-.1102708263-001	-.2369637051+000
12	.1633382228-001	-.6577814380-002	-.3681419797+000
13	.6868349174-002	-.3339808313-002	-.6649493277+000
14	.2614224493-002	-.1492265725-002	-.1381283988+001
15	.9098349247-003	-.5988530861-003	-.3216629433+001
16	.2918208889-003	-.2188765723-003	-.8229113603+001
17	.8679706301-004	-.7360800317-004	-.2281279066+002
18	.2406052868-004	-.2295736791-004	-.786276021+002
19	.6241409978-005	-.6682334436-005	-.2149894683+003
20	.1520073945-005	-.1824706262-005	-.7207636060+003
30	.3994449714-013	-.2582812349-012	-.7246851039+009
31	.4288919263-014	-.4238189424-013	-.2216252930+010
40	-.3182074790-021	-.6291981761-021	.5751431311+018
41	-.4411041069-022	-.9934610505-022	.5111795343+019
50	-.1629466354-030	-.1518162688-030	.3391495527+028
51	-.1868581437-031	-.1396370356-031	.3512046355+029
60	-.8359498726-041	-.1564451147-041	.9749044822+038
61	-.6905635554-042	-.9336409224-043	.1176576799+040
70	-.5440220645-052	.1805006482-052	.1164218948+050
71	-.3758693027-053	.1461352740-053	.1597181864+051
80	-.6295197270-064	.6804936670-064	.4330766843+061
81	-.3665344591-065	.4385609140-065	.6511039956+062
90	-.1038745598-076	.4180592513-076	.2487151171+073
91	-.4540491356-078	.2319847499-077	.3331404236+074
99	.2741359367-088	.1295337972-087	-.9720831636+084
100	.1691803521-089	.6391520301-089	-.2291234350+086

REAL X = .1000000000+002		IMAGINARY X = -.5000000000+000	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	-.6337298175-001	.4055497439-001	.9296603496-001
1	.8644227133-001	.3672629570-001	.7248182819-001
2	.6869147248-001	-.2827116114-001	-.7072509136-001
3	-.4150210647-001	-.4861486803-001	-.1066857419+000
4	-.1159732223+000	-.7123333968-001	-.4244455828+002
5	-.6229375388-001	.3701407444-001	.1006885295+000
6	.4559027626-001	.4431966855-001	.1130843120+000
7	.1185397196-000	.2341379297-001	.4662650831-001
8	.1300242325+000	-.4182536688-003	-.4062378879-001
9	.1019857135+000	-.1309855255-001	-.1121189432+000
10	.6450665850-001	-.1474245162-001	-.1685225479+000
11	.3468455108-001	-.1102708263-001	-.2369637051+000
12	.1633382228-001	-.6577814380-002	-.3681419797+000
13	.6868349174-002	-.3339808313-002	-.6649493277+000
14	.2614224493-002	-.1492265725-002	-.1381283988+001
15	.9098349247-003	-.5988530861-003	-.3216629433+001
16	.2918208889-003	-.2188765723-003	-.8229113603+001
17	.8679706301-004	-.7360800317-004	-.2281279066+002
18	.2406052868-004	-.2295736791-004	-.786276021+002
19	.6241409978-005	-.6682334436-005	-.2149894683+003
20	.1520073945-005	-.1824706262-005	-.7207636060+003
30	.3994449714-013	-.2582812349-012	-.7246851039+009
31	.4288919263-014	-.4238189424-013	-.2216252930+010
40	-.3182074790-021	-.6291981761-021	.5751431311+018
41	-.4411041069-022	-.9934610505-022	.5111795343+019
50	-.1629466354-030	-.1518162688-030	.3391495527+028
51	-.1868581437-031	-.1396370356-031	.3512046355+029
60	-.8359498726-041	-.1564451147-041	.9749044822+038
61	-.6905635554-042	-.9336409224-043	.1176576799+040
70	-.5440220645-052	.1805006482-052	.1164218948+050
71	-.3758693027-053	.1461352740-053	.1597181864+051
80	-.6295197270-064	.6804936670-064	.4330766843+061
81	-.3665344591-065	.4385609140-065	.6511039956+062
90	-.1038745598-076	.4180592513-076	.2487151171+073
91	-.4540491356-078	.2319847499-077	.3331404236+074
99	.2741359367-088	.1295337972-087	-.9720831636+084
100	.1691803521-089	.6391520301-089	-.2291234350+086

REAL X =	.1000000000+002	IMAGINARY X =	-.1000000000+001
	FIRST KIND	IMAGINARY BESSEL	SECOND KIND
	REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL
N	REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL
0	.9287823440-001	.8931990281-001	.1218635249+000
1	.1117832453+000	.8404374070-001	.1041908688+000
2	.1235854298+000	.6103612106-001	-.8852237417-001
3	.4758074927+001	-.1081415516+000	-.1432138916+000
4	.1490672277+000	-.1721114487-001	-.1268889286-001
5	-.8371776745-001	.7952166958-001	.1224102547+000
6	.4922868527-001	.9470112716-001	.1388579444+000
7	.1348921678+000	.4870723576-001	.5911753228-001
8	.1438724695+000	-.2350158042-002	-.3980727576-001
9	.1076616193+000	-.2841312572-001	-.1123192643+000
10	.6400433311-001	-.3086710057-001	-.1585173807+000
11	.3183460905-001	-.2245816264-001	-.2029606448+000
12	.1360455621-001	-.1302578457-001	-.2792753373+000
13	.5064239130-002	-.6416413970-002	-.4335277958+000
14	.1648787778-002	-.2773198749-002	-.7433574988+000
15	.4661689828-003	-.1072821591-002	-.1339777107+001
16	.1113097861-003	-.3765384272-003	-.2351524821-001
17	.2054386380-004	-.1210839338-003	-.3296090077+001
18	.1841600180-005	-.3594020246-004	.6071739597+000
19	-.0311949189-005	-.9903548407-005	.3797523709+002
20	-.4547450367-006	-.2544950816-005	.2604809139+003
30	-.2797425554-012	-.9093391609-013	.5715990314+010
31	-.4706180872-013	-.0999811033-014	.3434460170+011
40	-.7767203439-021	.6852782271-021	.8381344269+018
41	-.8627859176-022	.9350246650-022	.5887188829+019
50	.4950404363-031	.2832093388-030	-.9276862998+027
51	.7678108422-032	.2725257732-031	-.1258714190+029
60	.9888239675-041	.4005748140-041	.7492389074+038
61	.8422889336-042	.2457608689-042	-.9180469731+039
70	.6057047315-052	-.4354917082-052	-.7177608147+049
71	.3946688486-053	-.3489544751-053	-.9083151332+050
80	-.7248789671-065	-.1249827717-063	.7730771211+060
81	-.1221719717-065	-.7650527628-065	.2013989998+062
90	-.5270361590-076	-.2943905365-076	.8399147220+073
91	-.3050579320-077	-.1322759743-077	.1566287892+075
99	-.1772505139-087	.7338780149-088	.2509825096+085
100	-.8471681937-089	.4548210709-089	.4295208836+086
			.2884456120+086

REAL X = .1000000000+002		IMAGINARY X = -.3000000000+001		SECOND KIND		IMAGINARY BESSEL		FIRST KIND		REAL BESSEL		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	
0	.7338282764+000	.6204227004+000	0	.6250007258+000	.6250007258+000	0	.6250007258+000	.6250007258+000	0	.6250007258+000	.6250007258+000	0	.6250007258+000	.6250007258+000	
1	.5406011215+000	.7692161512+000	1	.7692161512+000	.7692161512+000	1	.7692161512+000	.7692161512+000	1	.7692161512+000	.7692161512+000	1	.7692161512+000	.7692161512+000	
2	.8191049157+000	.3640750433+000	2	.3640750433+000	.3640750433+000	2	.3640750433+000	.3640750433+000	2	.3640750433+000	.3640750433+000	2	.3640750433+000	.3640750433+000	
3	.1147628515+000	.8235021918+000	3	.8235021918+000	.8235021918+000	3	.8235021918+000	.8235021918+000	3	.8235021918+000	.8235021918+000	3	.8235021918+000	.8235021918+000	
4	.7341494439+000	.1868898494+000	4	.1868898494+000	.1868898494+000	4	.1868898494+000	.1868898494+000	4	.1868898494+000	.1868898494+000	4	.1868898494+000	.1868898494+000	
5	.4451217726+000	.4873359401+000	5	.4873359401+000	.4873359401+000	5	.4873359401+000	.4873359401+000	5	.4873359401+000	.4873359401+000	5	.4873359401+000	.4873359401+000	
6	.1374019118+000	.5439351239+000	6	.5439351239+000	.5439351239+000	6	.5439351239+000	.5439351239+000	6	.5439351239+000	.5439351239+000	6	.5439351239+000	.5439351239+000	
7	.4143766230+000	.2105561761+000	7	.2105561761+000	.2105561761+000	7	.2105561761+000	.2105561761+000	7	.2105561761+000	.2105561761+000	7	.2105561761+000	.2105561761+000	
8	.3459142857+000	.8310600048+001	8	.8310600048+001	.8310600048+001	8	.8310600048+001	.8310600048+001	8	.8310600048+001	.8310600048+001	8	.8310600048+001	.8310600048+001	
9	.1640071807+000	.1763212358+000	9	.1763212358+000	.1763212358+000	9	.1763212358+000	.1763212358+000	9	.1763212358+000	.1763212358+000	9	.1763212358+000	.1763212358+000	
10	.3322034513+001	.1419639583+000	10	.1419639583+000	.1419639583+000	10	.1419639583+000	.1419639583+000	10	.1419639583+000	.1419639583+000	10	.1419639583+000	.1419639583+000	
11	.1795211781+001	.7598655776+001	11	.7598655776+001	.7598655776+001	11	.7598655776+001	.7598655776+001	11	.7598655776+001	.7598655776+001	11	.7598655776+001	.7598655776+001	
12	.2299937826+001	.2973883449+001	12	.2973883449+001	.2973883449+001	12	.2973883449+001	.2973883449+001	12	.2973883449+001	.2973883449+001	12	.2973883449+001	.2973883449+001	
13	.1433624896+001	.8047038495+002	13	.8047038495+002	.8047038495+002	13	.8047038495+002	.8047038495+002	13	.8047038495+002	.8047038495+002	13	.8047038495+002	.8047038495+002	
14	.6532521753+002	.8477394504+003	14	.8477394504+003	.8477394504+003	14	.8477394504+003	.8477394504+003	14	.8477394504+003	.8477394504+003	14	.8477394504+003	.8477394504+003	
15	.2367218712+002	.5775537868+003	15	.5775537868+003	.5775537868+003	15	.5775537868+003	.5775537868+003	15	.5775537868+003	.5775537868+003	15	.5775537868+003	.5775537868+003	
16	.6927103820+003	.4705865488+003	16	.4705865488+003	.4705865488+003	16	.4705865488+003	.4705865488+003	16	.4705865488+003	.4705865488+003	16	.4705865488+003	.4705865488+003	
17	.1573913288+003	.2179988121+003	17	.2179988121+003	.2179988121+003	17	.2179988121+003	.2179988121+003	17	.2179988121+003	.2179988121+003	17	.2179988121+003	.2179988121+003	
18	.2267347422+004	.7779413658+004	18	.7779413658+004	.7779413658+004	18	.7779413658+004	.7779413658+004	18	.7779413658+004	.7779413658+004	18	.7779413658+004	.7779413658+004	
19	.120472596+005	.2298352642+004	19	.2298352642+004	.2298352642+004	19	.2298352642+004	.2298352642+004	19	.2298352642+004	.2298352642+004	19	.2298352642+004	.2298352642+004	
20	.2313737720+005	.5733695509+005	20	.5733695509+005	.5733695509+005	20	.5733695509+005	.5733695509+005	20	.5733695509+005	.5733695509+005	20	.5733695509+005	.5733695509+005	
30	.3871545188+012	.9092460728+012	30	.9092460728+012	.9092460728+012	30	.9092460728+012	.9092460728+012	30	.9092460728+012	.9092460728+012	30	.9092460728+012	.9092460728+012	
31	.1091478559+012	.1270754817+012	31	.1270754817+012	.1270754817+012	31	.1270754817+012	.1270754817+012	31	.1270754817+012	.1270754817+012	31	.1270754817+012	.1270754817+012	
40	.1461672144+020	.4784661287+020	40	.4784661287+020	.4784661287+020	40	.4784661287+020	.4784661287+020	40	.4784661287+020	.4784661287+020	40	.4784661287+020	.4784661287+020	
41	.3582967064+021	.5273579717+021	41	.5273579717+021	.5273579717+021	41	.5273579717+021	.5273579717+021	41	.5273579717+021	.5273579717+021	41	.5273579717+021	.5273579717+021	
50	.2845834256+030	.1991688944+029	50	.1991688944+029	.1991688944+029	50	.1991688944+029	.1991688944+029	50	.1991688944+029	.1991688944+029	50	.1991688944+029	.1991688944+029	
51	.8742866111+031	.1861594543+030	51	.1861594543+030	.1861594543+030	51	.1861594543+030	.1861594543+030	51	.1861594543+030	.1861594543+030	51	.1861594543+030	.1861594543+030	
60	.3984603687+041	.1084866645+039	60	.1084866645+039	.1084866645+039	60	.1084866645+039	.1084866645+039	60	.1084866645+039	.1084866645+039	60	.1084866645+039	.1084866645+039	
61	.2371523091+041	.8961085817+041	61	.8961085817+041	.8961085817+041	61	.8961085817+041	.8961085817+041	61	.8961085817+041	.8961085817+041	61	.8961085817+041	.8961085817+041	
70	.2511634862+051	.1077084257+050	70	.1077084257+050	.1077084257+050	70	.1077084257+050	.1077084257+050	70	.1077084257+050	.1077084257+050	70	.1077084257+050	.1077084257+050	
71	.5291779063+053	.8093032987+052	71	.8093032987+052	.8093032987+052	71	.8093032987+052	.8093032987+052	71	.8093032987+052	.8093032987+052	71	.8093032987+052	.8093032987+052	
80	.1128844778+062	.2460890685+062	80	.2460890685+062	.2460890685+062	80	.2460890685+062	.2460890685+062	80	.2460890685+062	.2460890685+062	80	.2460890685+062	.2460890685+062	
81	.2365485696+064	.1723886628+063	81	.1723886628+063	.1723886628+063	81	.1723886628+063	.1723886628+063	81	.1723886628+063	.1723886628+063	81	.1723886628+063	.1723886628+063	
90	.1133342347+074	.1532399840+074	90	.1532399840+074	.1532399840+074	90	.1532399840+074	.1532399840+074	90	.1532399840+074	.1532399840+074	90	.1532399840+074	.1532399840+074	
91	.3672592799+076	.1026588610+075	91	.1026588610+075	.1026588610+075	91	.1026588610+075	.1026588610+075	91	.1026588610+075	.1026588610+075	91	.1026588610+075	.1026588610+075	
99	.7741791649+086	.3553368352+086	99	.3553368352+086	.3553368352+086	99	.3553368352+086	.3553368352+086	99	.3553368352+086	.3553368352+086	99	.3553368352+086	.3553368352+086	
100	.3324372860+087	.2934799508+087	100	.2934799508+087	.2934799508+087	100	.2934799508+087	.2934799508+087	100	.2934799508+087	.2934799508+087	100	.2934799508+087	.2934799508+087	

REAL X = .1000000000+002		IMAGINARY X = -.1000000000+002		SECOND KIND	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7616160678+003	.1624729470+003	0	.1624729502+003	.7616160685+003
1	.1162684994+003	.7316589124+003	1	.7316589119+003	-.1162684961+003
2	.6693075058+003	-.3528383525+002	2	-.3528383897+002	-.6693075061+003
3	.5987933585+002	-.5731529948+003	3	-.5731529951+003	-.5987934017+002
4	-.4477461901+003	-.1443619454+003	4	-.1443619403+003	.4477461888+003
5	-.1964022460+003	.3067043338+003	5	.3067043370+003	.1964022520+003
6	.1710375712+003	.2050280937+003	6	.2050280870+003	-.1710375648+003
7	.1743084044+003	-.6226165161+002	7	-.6226166337+002	-.1743084125+003
8	.6389972264+001	-.1209930276+003	8	-.1209930252+003	-.6389992145+001
9	-.6603285654+002	-.3515094541+002	9	-.3515091469+002	.6603284782+002
10	-.3572778784+002	.2486841572+002	10	.2486845077+002	.3572782862+002
11	.2406842803+001	.2374860469+002	11	.2374856795+002	-.2406754469+001
12	.1118476167+002	.5210348890+001	12	.5210170012+001	-.1118474312+002
13	.5061173178+001	-.3254716480+001	13	-.3254926531+001	-.5061461916+001
14	.4168936465+001	-.2771632347+001	14	-.2771347242+001	-.4238128291+001
15	-.9818566964+000	-.7037008443+000	15	-.7020741099+000	.9815555550+000
16	-.4728309353+000	.1590181590+000	16	.1617212615+000	.4755775227+000
17	-.6369430928+001	.1859097634+000	17	.1842112789+000	.6998743897+001
18	.4127380822+001	.6010888563+001	18	.3817045835+001	-.3072976647+001
19	.2584941609+001	.1648220262+002	19	-.5674586295+001	-.5622215900+001
20	.5918523640+002	-.6488494741+002	20	-.3919168107+001	-.1895578763+000
30	-.1910754896+007	-.2690094482+009	30	.4718243957+005	.3702475745+005
31	-.2917146099+008	.3125199360+008	31	.1691069437+005	.2593740814+006
40	.5916460986+015	.1540891706+014	40	-.4675116842+012	.2430903411+012
41	.2597608499+015	.1069319384+015	41	-.2852533333+013	-.9995867057+012
50	.1015042463+022	-.6946357509+023	50	-.1264686704+020	-.5540808190+020
51	.2802199060+024	-.1664513468+023	51	.2229020550+021	.3395048314+021
60	-.8794051637+032	-.9291898276+032	60	.4557552341+029	-.2500977756+028
61	-.1470439275+032	-.2135014649+034	61	.2873026111+030	.2646912896+030
70	-.1653253964+041	.1965770966+041	70	-.1287681577+038	.1947389376+039
71	.2429031194+043	.2528215424+042	71	-.1476928852+040	.1267332247+040
80	.1027080380+051	.7231707458+052	80	-.3452869235+049	-.5448102179+048
81	.1072270290+052	-.1944100599+053	81	-.2315994624+050	-.3236620634+050
90	.9262814581+063	-.1522959424+062	90	.4926429429+059	-.2135223643+060
91	-.3339362458+064	-.1336364749+063	91	.2387487604+061	-.1471913812+061
99	-.3395040755+073	-.1146507397+072	99	.2596725455+070	-.1444346737+070
100	-.7412417518+074	-.3978517141+074	100	.4015124296+071	.1167359209+071

REAL X =	FIRST KIND	IMAGINARY X =	IMAGINARY BESSEL	N	IMAGINARY X =	IMAGINARY BESSEL	N	REAL BESSEL	SECOND KIND	IMAGINARY BESSEL
0	-.1188990994+042	-.6122971374+041	-.6122971374+041	0	-.6122971374+041	-.6122971374+041	0	-.1188990994+042	-.1000000000+003	-.1188990994+042
1	-.6074120084+041	.1176612571+042	.1176612571+042	1	.1176612571+042	.1176612571+042	1	.6074120084+041	.1176612571+042	.6074120084+041
2	.1152237912+042	.5977500854+041	.5977500854+041	2	.5977500854+041	.5977500854+041	2	.1152237912+042	.5977500854+041	.1152237912+042
3	.5835245680+041	-.1116611932+042	-.1116611932+042	3	-.1116611932+042	-.1116611932+042	3	.5835245680+041	-.1116611932+042	.5835245680+041
4	-.1070804736+042	.5650466832+041	.5650466832+041	4	.5650466832+041	.5650466832+041	4	-.1070804736+042	.5650466832+041	-.1070804736+042
5	-.5427156979+041	.1016158618+042	.1016158618+042	5	.1016158618+042	.1016158618+042	5	-.5427156979+041	.1016158618+042	-.5427156979+041
6	.9542232306+041	.5170061070+041	.5170061070+041	6	.5170061070+041	.5170061070+041	6	.9542232306+041	.5170061070+041	.9542232306+041
7	.4884524386+041	-.8866832724+041	-.8866832724+041	7	-.8866832724+041	-.8866832724+041	7	.4884524386+041	-.8866832724+041	.4884524386+041
8	-.8152833520+041	-.4576322291+041	-.4576322291+041	8	-.4576322291+041	-.4576322291+041	8	-.8152833520+041	-.4576322291+041	-.8152833520+041
9	-.4251478228+041	.7417546409+041	.7417546409+041	9	.7417546409+041	.7417546409+041	9	-.4251478228+041	.7417546409+041	-.4251478228+041
10	.6677475199+041	.3916077260+041	.3916077260+041	10	.3916077260+041	.3916077260+041	10	.6677475199+041	.3916077260+041	.6677475199+041
11	.3576082935+041	-.5947737088+041	-.5947737088+041	11	-.5947737088+041	-.5947737088+041	11	.3576082935+041	-.5947737088+041	.3576082935+041
12	-.5241604468+041	.3237165258+041	.3237165258+041	12	.3237165258+041	.3237165258+041	12	-.5241604468+041	.3237165258+041	-.5241604468+041
13	-.2904547091+041	.4570182387+041	.4570182387+041	13	.4570182387+041	.4570182387+041	13	-.2904547091+041	.4570182387+041	-.2904547091+041
14	.3942226235+041	.2582875366+041	.2582875366+041	14	.2582875366+041	.2582875366+041	14	.3942226235+041	.2582875366+041	.3942226235+041
15	.2276122046+041	-.3364094274+041	-.3364094274+041	15	-.3364094274+041	-.3364094274+041	15	.2276122046+041	-.3364094274+041	.2276122046+041
16	-.2839821276+041	.1987518028+041	.1987518028+041	16	.1987518028+041	.1987518028+041	16	-.2839821276+041	.1987518028+041	-.2839821276+041
17	-.1719521207+041	.2371293170+041	.2371293170+041	17	.2371293170+041	.2371293170+041	17	-.1719521207+041	.2371293170+041	-.1719521207+041
18	.1958498650+041	.1473817868+041	.1473817868+041	18	.1473817868+041	.1473817868+041	18	.1958498650+041	.1473817868+041	.1958498650+041
19	.1251354711+041	-.1599832019+041	-.1599832019+041	19	-.1599832019+041	-.1599832019+041	19	.1251354711+041	-.1599832019+041	.1251354711+041
20	-.1292422095+041	.1052397186+041	.1052397186+041	20	.1052397186+041	.1052397186+041	20	-.1292422095+041	.1052397186+041	-.1292422095+041
30	.8093821370+039	.1085669518+040	.1085669518+040	30	.1085669518+040	.1085669518+040	30	.8093821370+039	.1085669518+040	.8093821370+039
31	.8185428652+039	-.5733407582+039	-.5733407582+039	31	-.5733407582+039	-.5733407582+039	31	.8185428652+039	-.5733407582+039	.8185428652+039
40	-.1281192101+038	.4048052317+038	.4048052317+038	40	.4048052317+038	.4048052317+038	40	-.1281192101+038	.4048052317+038	-.1281192101+038
41	-.2750845560+038	.7571837340+037	.7571837340+037	41	.7571837340+037	.7571837340+037	41	-.2750845560+038	.7571837340+037	-.2750845560+038
50	-.5649362783+035	.5257662822+036	.5257662822+036	50	.5257662822+036	.5257662822+036	50	-.5649362783+035	.5257662822+036	-.5649362783+035
51	.3208059111+036	.4928619305+035	.4928619305+035	51	.4928619305+035	.4928619305+035	51	.3208059111+036	.4928619305+035	.3208059111+036
60	.1508378875+034	-.2245178441+034	-.2245178441+034	60	-.2245178441+034	-.2245178441+034	60	.1508378875+034	-.2245178441+034	.1508378875+034
61	-.1217385503+034	.9132191410+033	.9132191410+033	61	.9132191410+033	.9132191410+033	61	-.1217385503+034	.9132191410+033	-.1217385503+034
70	-.5351017605+031	.2468440436+031	.2468440436+031	70	.2468440436+031	.2468440436+031	70	-.5351017605+031	.2468440436+031	-.5351017605+031
71	.1115641891+031	.2839340243+031	.2839340243+031	71	.2839340243+031	.2839340243+031	71	.1115641891+031	.2839340243+031	.1115641891+031
80	.559791317+028	.9565638280+027	.9565638280+027	80	.9565638280+027	.9565638280+027	80	.559791317+028	.9565638280+027	.559791317+028
81	.6245680566+027	-.2642452713+028	-.2642452713+028	81	-.2642452713+028	-.2642452713+028	81	.6245680566+027	-.2642452713+028	.6245680566+027
90	-.1719325619+025	.1834622451+025	.1834622451+025	90	.1834622451+025	.1834622451+025	90	-.1719325619+025	.1834622451+025	-.1719325619+025
91	-.8625611776+024	.7057983358+024	.7057983358+024	91	.7057983358+024	.7057983358+024	91	-.8625611776+024	.7057983358+024	-.8625611776+024
99	-.1266514018+022	.1711870879+021	.1711870879+021	99	.1711870879+021	.1711870879+021	99	-.1266514018+022	.1711870879+021	-.1266514018+022
100	.3382960410+020	.5297732654+021	.5297732654+021	100	.5297732654+021	.5297732654+021	100	.3382960410+020	.5297732654+021	.3382960410+020

REAL X = .2000000000+002		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL		FIRST KIND		IMAGINARY BESSEL		SECOND KIND		IMAGINARY BESSEL			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4564726254-001	.0000000000	0	-.2040410309-001	.0000000000	0	-.2040410309-001	.0000000000	0	-.2040410309-001	.0000000000	0	-.2040410309-001	.0000000000	0	-.2040410309-001	.0000000000
1	-.1812173996-001	.0000000000	1	.4666746769-001	.0000000000	1	.4666746769-001	.0000000000	1	.4666746769-001	.0000000000	1	.4666746769-001	.0000000000	1	.4666746769-001	.0000000000
2	-.4836552353-001	.0000000000	2	.1340398294-001	.0000000000	2	.1340398294-001	.0000000000	2	.1340398294-001	.0000000000	2	.1340398294-001	.0000000000	2	.1340398294-001	.0000000000
3	.6030359081-002	.0000000000	3	.5001846343-001	.0000000000	3	.5001846343-001	.0000000000	3	.5001846343-001	.0000000000	3	.5001846343-001	.0000000000	3	.5001846343-001	.0000000000
4	.5047614921-001	.0000000000	4	.4102479262-002	.0000000000	4	.4102479262-002	.0000000000	4	.4102479262-002	.0000000000	4	.4102479262-002	.0000000000	4	.4102479262-002	.0000000000
5	.1668390806-001	.0000000000	5	-.4817234776-001	.0000000000	5	-.4817234776-001	.0000000000	5	-.4817234776-001	.0000000000	5	-.4817234776-001	.0000000000	5	-.4817234776-001	.0000000000
6	-.4129999977-001	.0000000000	6	.3059727053-001	.0000000000	6	.3059727053-001	.0000000000	6	.3059727053-001	.0000000000	6	.3059727053-001	.0000000000	6	.3059727053-001	.0000000000
7	-.4352890792-001	.0000000000	7	.2828412191-001	.0000000000	7	.2828412191-001	.0000000000	7	.2828412191-001	.0000000000	7	.2828412191-001	.0000000000	7	.2828412191-001	.0000000000
8	.8653318837-002	.0000000000	8	.5181036196-001	.0000000000	8	.5181036196-001	.0000000000	8	.5181036196-001	.0000000000	8	.5181036196-001	.0000000000	8	.5181036196-001	.0000000000
9	.5088422893-001	.0000000000	9	.1575468576-001	.0000000000	9	.1575468576-001	.0000000000	9	.1575468576-001	.0000000000	9	.1575468576-001	.0000000000	9	.1575468576-001	.0000000000
10	.3968969864-001	.0000000000	10	-.3684341050-001	.0000000000	10	-.3684341050-001	.0000000000	10	-.3684341050-001	.0000000000	10	-.3684341050-001	.0000000000	10	-.3684341050-001	.0000000000
11	-.9213195351-002	.0000000000	11	-.5444026678-001	.0000000000	11	-.5444026678-001	.0000000000	11	-.5444026678-001	.0000000000	11	-.5444026678-001	.0000000000	11	-.5444026678-001	.0000000000
12	-.5028187330-001	.0000000000	12	-.2576289630-001	.0000000000	12	-.2576289630-001	.0000000000	12	-.2576289630-001	.0000000000	12	-.2576289630-001	.0000000000	12	-.2576289630-001	.0000000000
13	-.5363914627-001	.0000000000	13	.2223664641-001	.0000000000	13	.2223664641-001	.0000000000	13	.2223664641-001	.0000000000	13	.2223664641-001	.0000000000	13	.2223664641-001	.0000000000
14	-.2213997417-001	.0000000000	14	.5578236894-001	.0000000000	14	.5578236894-001	.0000000000	14	.5578236894-001	.0000000000	14	.5578236894-001	.0000000000	14	.5578236894-001	.0000000000
15	.2154923373-001	.0000000000	15	.5864778856-001	.0000000000	15	.5864778856-001	.0000000000	15	.5864778856-001	.0000000000	15	.5864778856-001	.0000000000	15	.5864778856-001	.0000000000
16	.5553228645-001	.0000000000	16	.3512170333-001	.0000000000	16	.3512170333-001	.0000000000	16	.3512170333-001	.0000000000	16	.3512170333-001	.0000000000	16	.3512170333-001	.0000000000
17	.7007993891-001	.0000000000	17	-.6969780704-003	.0000000000	17	-.6969780704-003	.0000000000	17	-.6969780704-003	.0000000000	17	-.6969780704-003	.0000000000	17	-.6969780704-003	.0000000000
18	.6710903164-001	.0000000000	18	-.3634141495-001	.0000000000	18	-.3634141495-001	.0000000000	18	-.3634141495-001	.0000000000	18	-.3634141495-001	.0000000000	18	-.3634141495-001	.0000000000
19	.5406711963-001	.0000000000	19	-.6653463959-001	.0000000000	19	-.6653463959-001	.0000000000	19	-.6653463959-001	.0000000000	19	-.6653463959-001	.0000000000	19	-.6653463959-001	.0000000000
20	.3832485164-001	.0000000000	20	-.9340113225-001	.0000000000	20	-.9340113225-001	.0000000000	20	-.9340113225-001	.0000000000	20	-.9340113225-001	.0000000000	20	-.9340113225-001	.0000000000
30	.2106357694-004	.0000000000	30	-.5161670075+002	.0000000000	30	-.5161670075+002	.0000000000	30	-.5161670075+002	.0000000000	30	-.5161670075+002	.0000000000	30	-.5161670075+002	.0000000000
31	.7502467639-005	.0000000000	31	-.1370732347+003	.0000000000	31	-.1370732347+003	.0000000000	31	-.1370732347+003	.0000000000	31	-.1370732347+003	.0000000000	31	-.1370732347+003	.0000000000
40	.1419799206-009	.0000000000	40	-.5000783832+007	.0000000000	40	-.5000783832+007	.0000000000	40	-.5000783832+007	.0000000000	40	-.5000783832+007	.0000000000	40	-.5000783832+007	.0000000000
41	.3640110927-010	.0000000000	41	-.1889023509+008	.0000000000	41	-.1889023509+008	.0000000000	41	-.1889023509+008	.0000000000	41	-.1889023509+008	.0000000000	41	-.1889023509+008	.0000000000
50	.5650090792-016	.0000000000	50	-.9542541667+013	.0000000000	50	-.9542541667+013	.0000000000	50	-.9542541667+013	.0000000000	50	-.9542541667+013	.0000000000	50	-.9542541667+013	.0000000000
51	.1140918064-016	.0000000000	51	-.4617407569+014	.0000000000	51	-.4617407569+014	.0000000000	51	-.4617407569+014	.0000000000	51	-.4617407569+014	.0000000000	51	-.4617407569+014	.0000000000
60	.2629722269-023	.0000000000	60	-.1664999491+021	.0000000000	60	-.1664999491+021	.0000000000	60	-.1664999491+021	.0000000000	60	-.1664999491+021	.0000000000	60	-.1664999491+021	.0000000000
61	.4393309625-024	.0000000000	61	-.9784867641+021	.0000000000	61	-.9784867641+021	.0000000000	61	-.9784867641+021	.0000000000	61	-.9784867641+021	.0000000000	61	-.9784867641+021	.0000000000
70	.2142180699-031	.0000000000	70	-.1726303096+029	.0000000000	70	-.1726303096+029	.0000000000	70	-.1726303096+029	.0000000000	70	-.1726303096+029	.0000000000	70	-.1726303096+029	.0000000000
71	.3055173370-032	.0000000000	71	-.1191659525+030	.0000000000	71	-.1191659525+030	.0000000000	71	-.1191659525+030	.0000000000	71	-.1191659525+030	.0000000000	71	-.1191659525+030	.0000000000
80	.4002448691-040	.0000000000	80	-.8010434261+037	.0000000000	80	-.8010434261+037	.0000000000	80	-.8010434261+037	.0000000000	80	-.8010434261+037	.0000000000	80	-.8010434261+037	.0000000000
81	.4986247260-041	.0000000000	81	-.6345970184+038	.0000000000	81	-.6345970184+038	.0000000000	81	-.6345970184+038	.0000000000	81	-.6345970184+038	.0000000000	81	-.6345970184+038	.0000000000
90	.2085439555-049	.0000000000	90	-.1358214079+047	.0000000000	90	-.1358214079+047	.0000000000	90	-.1358214079+047	.0000000000	90	-.1358214079+047	.0000000000	90	-.1358214079+047	.0000000000
91	.2306745878-050	.0000000000	91	-.1213811516+048	.0000000000	91	-.1213811516+048	.0000000000	91	-.1213811516+048	.0000000000	91	-.1213811516+048	.0000000000	91	-.1213811516+048	.0000000000
99	.3497874872-058	.0000000000	99	-.7332789791+055	.0000000000	99	-.7332789791+055	.0000000000	99	-.7332789791+055	.0000000000	99	-.7332789791+055	.0000000000	99	-.7332789791+055	.0000000000
100	.3515271113-059	.0000000000	100	-.7220889358+056	.0000000000	100	-.7220889358+056	.0000000000	100	-.7220889358+056	.0000000000	100	-.7220889358+056	.0000000000	100	-.7220889358+056	.0000000000

REAL X = .2000000000+002		IMAGINARY X = -.1000000000-002		SECOND KIND		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL	N	REAL	N	REAL	N	REAL
0	.456472862/-001	0	-.2040411096-001	0	-.2040411096-001	0	-.2040411096-001	0	-.4666747569-004
1	-.1812174561-001	1	-.4745944458-004	1	-.4666749169-001	1	-.4666749169-001	1	.1573735812-004
2	-.4836554789-001	2	.1086691241-004	2	.1340398710-001	2	.1340398710-001	2	.4867807322-004
3	.03035952/-002	3	.4957160333-004	3	.5001848785-001	3	.5001848785-001	3	-.3400290010-005
4	.5047617286-001	4	.6588680005-005	4	.4102483660-002	4	.4102483660-002	4	-.4892285118-004
5	.1668301805-001	5	-.4547098345-004	5	-.4817236911-001	5	-.4817236911-001	5	-.1855418709-004
6	-.4130001670-001	6	-.3113891310-004	6	-.3059728609-001	6	-.3059728609-001	6	.3746330816-004
7	-.4352892783-001	7	.2388843945-004	7	.2828413198-001	7	.2828413198-001	7	.4191092554-004
8	.8653320014-002	8	.4742290785-004	8	.5181038345-001	8	.5181038345-001	8	-.4969459144-005
9	.5088424781-001	9	.1678879822-004	9	.1575469406-001	9	.1575469406-001	9	-.4393302451-004
10	.3968671448-001	10	-.2905654781-004	10	-.3684342205-001	10	-.3684342205-001	10	-.3601856607-004
11	-.9213196177-002	11	-.4521462084-004	11	-.5444028522-001	11	-.5444028522-001	11	.4179250578-005
12	-.502818746-001	12	-.2347002480-004	12	-.2576290604-001	12	-.2576290604-001	12	.3769438783-004
13	-.5363916153-001	13	.1273447195-004	13	.2223665040-001	13	.2223665040-001	13	.4132855246-004
14	-.221308128-001	14	.3704091850-004	14	.5578238121-001	14	.5578238121-001	14	.1960013176-004
15	.2154923607-001	15	.3937036361-004	15	.5864780074-001	15	.5864780074-001	15	-.8864138858-005
16	.5553229405-001	16	.2565321072-004	16	.3512171039-001	16	.3512171039-001	16	-.2879434241-004
17	.7007904677-001	17	.7538848229-005	17	-.6969763649-003	17	-.6969763649-003	17	-.3574898490-004
18	.6710603683-001	18	-.6328309778-005	18	-.3634141590-001	18	-.3634141590-001	18	-.3382736644-004
19	.5406712164-001	19	-.1303891290-004	19	-.6653463975-001	19	-.6653463975-001	19	-.3019322382-004
20	.3832485137-001	20	-.1382602596-004	20	-.9340112834-001	20	-.9340112834-001	20	-.3153654722-004
30	.2106356419-004	30	-.2409289368-007	30	-.5161666357+002	30	-.5161666357+002	30	-.5964816716-001
31	.7502462540-005	31	-.9059626959-008	31	-.1370731249+003	31	-.1370731249+003	31	-.1677004240+000
40	.1419797129-009	40	-.2475586204-012	40	-.5000775636+007	40	-.5000775636+007	40	-.8886662215+004
41	.3640105239-010	41	-.6553755049-013	41	-.1889020214+008	41	-.1889020214+008	41	-.3466868829+005
50	.5650066257-016	50	-.1298427336-018	50	-.9542514906+013	50	-.9542514906+013	50	-.2231769961+011
51	.1140914986-016	51	-.2683691535-019	51	-.4617394019+014	51	-.4617394019+014	51	-.1105099417+012
60	.2629711925-023	60	-.7449827363-026	60	-.1664992467+021	60	-.1664992467+021	60	-.4789862169+018
61	.4393282686-024	61	-.1267797416-026	61	-.9784824842+021	61	-.9784824842+021	61	-.2866804681+019
70	.2142176191-031	70	-.7192028043-034	70	-.1726232941+029	70	-.1726232941+029	70	-.5874522522+026
71	.3056155890-032	71	-.1041963732-034	71	-.1191652300+030	71	-.1191652300+030	71	-.4117335397+027
80	.4002419048-040	80	-.1551113280-042	80	-.8010371810+037	80	-.8010371810+037	80	-.3141788094+035
81	.4986209334-041	81	-.1958082485-043	81	-.6345919409+038	81	-.6345919409+038	81	-.2521736527+036
90	.2085419706-049	90	-.9153775064-052	90	-.1358200552+047	90	-.1358200552+047	90	-.6026131323+044
91	.2306723404-050	91	-.1024333203-052	91	-.1213799148+048	91	-.1213799148+048	91	-.5447692629+045
99	.3497834183-058	99	-.1696288915-060	99	-.7332700919+055	99	-.7332700919+055	99	-.3591143595+053
100	.3515229351-059	100	-.1722656284-061	100	-.7220800019+056	100	-.7220800019+056	100	-.3573206182+054

REAL X = .2000000000+002		IMAGINARY = -.1000000000-001	
N	FIRST KIND	N	SECOND KIND
0	REAL BESSEL	0	REAL BESSEL
0	.4564963553-001	0	-.2040488996-001
1	-.1812240425-001	1	-.466696810-001
2	-.4836795989-001	2	.1340439969-001
3	.6030403694-002	3	.5002090634-001
4	.5047851390-001	4	.4102919099-002
5	.1668490706-001	5	-.417448297-001
6	-.4130169227-001	6	-.3059882709-001
7	-.4353709912-001	7	.2828512858-001
8	.8653436509-002	8	.5181251105-001
9	.5088611676-001	9	.1575551592-001
10	.3968828258-001	10	-.3684456598-001
11	-.9213277921-002	11	-.5444211143-001
12	-.5028328955-001	12	-.2576387054-001
13	-.5364067162-001	13	.2223704571-001
14	-.2213168499-001	14	.5578359578-001
15	.2154946786-001	15	.5864900584-001
16	.5553304670-001	16	.3512240925-001
17	.7007982465-001	17	-.6968075166-003
18	.6710654981-001	18	-.3634150929-001
19	.5406731999-001	19	-.6653465496-001
20	.3832482496-001	20	-.9340074107-001
30	.2106230195-004	30	-.5161298296+002
31	.7501957759-005	31	-.1370622530+003
40	.1419591519-009	40	-.4999964293+007
41	.3639542180-010	41	-.1888694025+008
50	.5648627310-015	50	-.9539865658+013
51	.1140610326-015	51	-.4616052587+014
60	.2628687968-023	60	-.1664297108+021
61	.4391506860-024	61	-.9780588084+021
70	.2141000407-031	70	-.1725287679+029
71	.3054425538-032	71	-.1190937128+030
80	.3999484732-040	80	-.8004190096+037
81	.4982455100-041	81	-.6340893367+038
90	.2083454927-049	90	-.1356861622+047
91	.2304498771-050	91	-.1212574934+048
99	.3493806716-058	99	-.7323904417+055
100	.3511095771-059	100	-.7211957289+056
	IMAGINARY BESSEL		IMAGINARY BESSEL
	.1812196138-003		-.4666826783-003
	-.4746024161-003		.1573753636-003
	.1086700893-003		.4867887377-003
	.4957239381-003		-.3400266011-004
	.6588856610-004		-.4899360093-003
	-.4547164280-003		-.1855453324-003
	-.3113941907-003		.3746381225-003
	.2388872080-003		.4191154348-003
	.4742354688-003		-.4969470439-004
	.1678905493-003		-.4393356113-003
	-.290568875-003		-.3601901538-003
	-.4521511467-003		.4179265205-004
	-.2347027347-003		.3769474854-003
	.1273457535-003		.4132891719-003
	.3704120147-003		.1960027592-003
	.3937060659-003		-.8864214521-004
	.2565330684-003		-.2879450818-003
	.7538814311-004		-.3574911406-003
	-.6328401967-004		-.3382739642-003
	-.1303900072-003		-.3019314245-003
	.1382608070-003		-.3153634367-003
	-.2459248784-006		-.59646553749+000
	-.9059452503-007		-.1676953917+001
	-.2475475834-011		-.8888145961+005
	-.6553442645-012		-.3466655198+006
	-.1298322816-017		-.2231552985+012
	-.2683464654-018		-.1104987149+013
	-.7448898801-025		-.4789169371+019
	-.1267633224-025		-.2866375135+020
	-.7190754838-033		-.5873345788+027
	-.1041773342-033		-.4116485856+028
	-.1550744638-041		-.3140957922+036
	-.1957604361-042		-.2521052932+037
	-.9150969055-051		-.6024104092+045
	-.1024011683-051		-.5445818201+046
	-.1695651821-059		-.3589676931+054
	-.1721995362-060		-.3571716783+055

REAL X = .2000000000+002		IMAGINARY X = -.5000000000+000		SECOND KIND		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	IMAGINARY BESSEL
0	.5170653395-001	0	-.9339818985-002	0	-.2239953238-001	0	-.9339818985-002	0	-.2434656253-001
1	-.1980415302-001	1	-.2474866899-001	1	-.5279539683-001	1	-.2474866899-001	1	.8095269286-002
2	-.5458255188-001	2	.5555618188-002	2	.145493103-001	2	.5555618188-002	2	.2536223539-001
3	.6132337320-002	3	.2579577815-001	3	.5624843247-001	3	.2579577815-001	3	-.1668384549-002
4	.5650195726-001	4	.3520889298-002	4	.5234412918-002	4	.3520889298-002	4	-.2545393888-002
5	.1923807693-001	5	-.2357711761-001	5	-.5360823996-001	5	-.2357711761-001	5	-.9719883134-002
6	-.4560364103-001	6	-.1621584607-001	6	-.3456696366-001	6	-.1621584607-001	6	.1937468939-001
7	-.4859858578-001	7	.1230280494-001	7	.3083910559-001	7	.1230280494-001	7	.2174420288-001
8	.8946934537-002	8	.2452653211-001	8	.5727439690-001	8	.2452653211-001	8	-.2498851399-002
9	.5567786678-001	9	.8721729387-002	9	.1786679118-001	9	.8721729387-002	9	-.2265057915-001
10	.4370698913-001	10	-.149245411-001	10	-.3977393181-001	10	-.149245411-001	10	-.1858168716-001
11	-.9422668490-002	11	-.2323611759-001	11	-.5911586963-001	11	-.2323611759-001	11	.2108580664-002
12	-.5386866846-001	12	-.1205103611-001	12	-.2822743909-001	12	-.1205103611-001	12	.1930652065-001
13	-.5749474883-001	13	.6499387024-002	13	.2325065775-001	13	.6499387024-002	13	.2112793986-001
14	-.2391997886-001	14	.1888049241-001	14	.5888359898-001	14	.1888049241-001	14	.9982602149-002
15	.2214845307-001	15	.1999366957-001	15	.6171558755-001	15	.1999366957-001	15	-.4529010507-002
16	.5745436742-001	16	.1294805514-001	16	.3689120162-001	16	.1294805514-001	16	-.1460319657-001
17	.7205826671-001	17	.3725789409-002	17	-.2809133444-003	17	.3725789409-002	17	-.1803865019-001
18	.6840593334-001	18	-.3281416158-002	18	-.3659379491-001	18	-.3281416158-002	18	-.1695200408-001
19	.5456533572-001	19	-.6630819240-002	19	-.6659178162-001	19	-.6630819240-002	19	-.1499437474-001
20	.3825306187-001	20	-.6982206480-002	20	-.9244855201-001	20	-.6982206480-002	20	-.1551308534-001
30	.1793084990-004	30	-.1153803325-004	30	-.4267651871+002	30	-.1153803325-004	30	-.2781896201+002
31	.6253464477-005	31	-.4311663156-005	31	-.1107567409+003	31	-.4311663156-005	31	-.7767155377+002
40	.9269553388-010	40	-.1102332896-009	40	-.3106978360+007	40	-.1102332896-009	40	-.3824309382+007
41	.2295917289-010	41	-.2893258399-010	41	-.1131140664+008	41	-.2893258399-010	41	-.1477576612+008
50	.2353936800-016	50	-.5242670342-016	50	-.3666504923+013	50	-.5242670342-016	50	-.8631591598+013
51	.4466250786-017	51	-.1071427977-016	51	-.1659083258+014	51	-.1071427977-016	51	-.4222347410+014
60	.4131573777-024	60	-.2650427217-023	60	-.2159107755+020	60	-.2650427217-023	60	-.1617343867+021
61	.5732604230-025	61	-.4445867655-024	61	-.1016135554+021	61	-.4445867655-024	61	-.9532341319+021
70	-.2351573562-032	70	-.2178930177-031	70	.2191927891+028	70	-.2178930177-031	70	-.1672511498+029
71	-.4163695552-033	71	-.3099735827-032	71	.1813134920+029	71	-.3099735827-032	71	-.1149846972+030
80	-.1471748054-040	80	-.3834278959-040	80	.2965825172+037	80	-.3834278959-040	80	-.7218282193+037
81	-.1956579912-041	81	-.4729333093-041	81	.2495637714+038	81	-.4729333093-041	81	-.5654160642+038
90	-.1253132789-049	90	-.1742642428-049	90	.7953481695+046	90	-.1742642428-049	90	-.1052462454+047
91	-.1435451011-050	91	-.1892024352-050	91	.73444417106+047	91	-.1892024352-050	91	-.9217576952+047
99	-.2720346666-058	99	-.2373234714-058	99	.5462382652+055	99	-.2373234714-058	99	-.4539745098+055
100	-.2794652435-059	100	-.2315264719-059	100	.5489676662+056	100	-.2315264719-059	100	-.4330423724+056

REAL X = .2000000000+002		IMAGINARY Y = -.1000000000+001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.7145770890-001	0	-.2040604086-001	0	-.2873111270-001	0	-.2873111270-001	0	-.5508127305-001	0	-.5508127305-001
1	-.2511624931-001	1	-.5592083193-001	1	-.7275332231-001	1	-.7275332231-001	1	.1758719654-001	1	.1758719654-001
2	-.7479739085-001	2	.1185093198-001	2	.1771375377-001	2	.1771375377-001	2	.5716848459-001	2	.5716848459-001
3	.6315766155-002	3	.5794354076-001	3	.7645789327-001	3	.7645789327-001	3	.3109846844-002	3	.3109846844-002
4	.7599091323-001	4	.8488983411-002	4	.9034061653-002	4	.9034061653-002	4	-.5691954021-001	4	-.5691954021-001
5	.2760434240-001	5	-.5242749280-001	5	-.47112520759-001	5	-.47112520759-001	5	-.2223731197-001	5	-.2223731197-001
6	-.5940822558-001	6	.3649497007-001	6	-.4744537147-001	6	-.4744537147-001	6	.4276845314-001	6	.4276845314-001
7	-.6494026270-001	7	.2683896624-001	7	.3897611414-001	7	.3897611414-001	7	.4842935184-001	7	.4842935184-001
8	.9820536543-002	8	.5414481030-001	8	.7479298734-001	8	.7479298734-001	8	-.5079058469-002	8	-.5079058469-002
9	.7097148626-001	9	.1948568369-001	9	.2465470803-001	9	.2465470803-001	9	-.4956501043-001	9	-.4956501043-001
10	.5651097665-001	10	-.3231683513-001	10	-.4908095679-001	10	-.4908095679-001	10	-.4072209991-001	10	-.4072209991-001
11	-.1009052933-001	11	-.5037431273-001	11	-.7392861765-001	11	-.7392861765-001	11	.4343110042-002	11	.4343110042-002
12	-.6519684772-001	12	.2604791806-001	12	-.3597404482-001	12	-.3597404482-001	12	.4146392638-001	12	.4146392638-001
13	-.6957836321-001	13	.1383097053-001	13	.2648816734-001	13	.2648816734-001	13	.4511477541-001	13	.4511477541-001
14	-.2943096350-001	14	.3998833771-001	14	.6860624290-001	14	.6860624290-001	14	.2107263034-001	14	.2107263034-001
15	.2411796251-001	15	.4187909912-001	15	.7121885162-001	15	.7121885162-001	15	-.9674110479-002	15	-.9674110479-002
16	.6348304511-001	16	.2662687000-001	16	.4225556614-001	16	.4225556614-001	16	-.3052441112-001	16	-.3052441112-001
17	.7817660871-001	17	.7169964940-002	17	.8409469432-003	17	.8409469432-003	17	-.3708817795-001	17	-.3708817795-001
18	.7235904298-001	18	-.7287326948-002	18	-.3755045620-001	18	-.3755045620-001	18	-.3414464479-001	18	-.3414464479-001
19	.5602619155-001	19	-.1394137978-001	19	-.6698554976-001	19	-.6698554976-001	19	-.2938664505-001	19	-.2938664505-001
20	.3797547876-001	20	.1438163754-001	20	-.8988757287-001	20	-.8988757287-001	20	-.2953121451-001	20	-.2953121451-001
30	.9180864013-005	30	-.2012138388-004	30	-.1979867896+002	30	-.1979867896+002	30	-.4479614553+002	30	-.4479614553+002
31	.2809159398-005	31	-.7364976172-005	31	-.4439668234+002	31	-.4439668234+002	31	-.1222216202+003	31	-.1222216202+003
40	-.2561412598-010	40	.1481427271-009	40	.9596497599+006	40	.9596497599+006	40	-.4614920058+007	40	-.4614920058+007
41	-.8720035070-011	41	.3758528626-010	41	.4621074630+007	41	.4621074630+007	41	-.1717792284+008	41	-.1717792284+008
50	-.4910949541-016	50	-.4525289562-016	50	.6170722815+013	50	.6170722815+013	50	-.6416544273+013	50	-.6416544273+013
51	-.8591249925-017	51	-.8696211272-017	51	.3147186058+014	51	.3147186058+014	51	-.2934223840+014	51	-.2934223840+014
60	-.2710114248-023	60	-.8715305889-024	60	.1481276633+021	60	.1481276633+021	60	-.4056789822+020	60	-.4056789822+020
61	-.4603474396-024	61	.1216558598-024	61	.8809027934+021	61	.8809027934+021	61	-.1917387029+021	61	-.1917387029+021
70	-.2293566910-031	70	.4951624943-032	70	.1521555771+029	70	.1521555771+029	70	.4021914632+028	70	.4021914632+028
71	-.3234808698-032	71	.8773179663-033	71	.1033201429+030	71	.1033201429+030	71	.3315949093+029	71	.3315949093+029
80	-.3304894381-040	80	.2960609718-040	80	.5144360851+037	80	.5144360851+037	80	.5060423640+037	80	.5060423640+037
81	-.3926588641-041	81	.3900134637-041	81	.3858592674+038	81	.3858592674+038	81	.4208727150+038	81	.4208727150+038
90	-.7510599646-050	90	.2216245062-049	90	.3333147079+046	90	.3333147079+046	90	.1161976137+047	90	.1161976137+047
91	-.7051147404-051	91	.2493753832-050	91	.2440024014+047	91	.2440024014+047	91	.1051054567+048	91	.1051054567+048
99	.5262069460-059	99	.7933163047-058	99	-.1161080257+055	99	-.1161080257+055	99	.6349959447+055	99	.6349959447+055
100	.7304043823-060	100	.3925442470-059	100	-.1458932109+056	100	-.1458932109+056	100	.6179078419+056	100	.6179078419+056

REAL X = .2000000000+002		IMAGINARY X = -.3000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4794347904+000	-.1324905342+000	0	-.1338174359+000	-.4773611823+000
1	-.1094013787+000	-.4803233004+000	1	-.4824770035+000	.1081661431+000
2	-.4849144310+000	.5962009306-001	2	.6065822931-001	.4826122227+000
3	-.1134616289-001	.4771151924+000	3	.4796081517+000	.1205658478-001
4	.4565332505+000	.1031133972+000	4	.1028917779+000	-.4538599170+000
5	.205458449+000	-.4015983214+000	5	-.4043642940+000	-.2050009688+000
6	-.3136149071+000	.3025547224+000	6	-.3038573395+000	.3109612499+000
7	-.3759724832+000	.1793560461+000	7	.1815515873+000	.3737098752+000
8	.1810641302-001	.3927489329+000	8	.3939075396+000	-.1687131350-001
9	.3420506857+000	.1493876773+000	9	.1496684627+000	-.3383574842+000
10	.2788719806+000	-.2062838804+000	10	-.2096949175+000	-.2766459032+000
11	-.2390370211-001	-.3182637042+000	11	-.3223901582+000	.2198103153-001
12	-.2520639301+000	-.1556981718+000	12	-.1566037718+000	.2469792860+000
13	-.2556919023+000	.8170164875-001	13	.8565340427-001	.2512325629+000
14	-.1017049226+000	.2129300697+000	14	.2199362919+000	.1015845519+000
15	.6617167936-001	.1986189189+000	15	.2046069705+000	-.6025009064-001
16	.1568513327+000	.1032012161+000	16	.1039259477+000	-.1464941209+000
17	.1619578052+000	.5882510357-002	17	-.1443050040-002	-.1509898051+000
18	.1188278851+000	-.5155494031-001	18	-.6763305161-001	-.1122941035+000
19	.6702809533-001	-.6691126485-001	19	-.9044891255-001	-.7053808080-001
20	.2814163166-001	.5687659863-001	20	-.8468283185-001	-.4810253561-001
30	-.3145358022-004	.8401995661-005	30	.3089323716+002	.9534914010+001
31	-.1049696963-004	.5077304092-005	31	.7518624344+002	.4108605926+002
40	.1082758986-009	.2103096991-009	40	-.1608086644+007	.2474091188+007
41	.3677195491-010	.4891214682-010	41	-.7521614870+007	.8098154296+007
50	.8791238985-016	-.5464632945-016	50	-.4002692025+013	-.3218703597+013
51	.1590706555-016	-.1388017780-016	51	-.1643028714+014	-.1832338724+014
60	-.2916718998-023	-.4465813835-023	60	.5276952760+020	-.6150509220+020
61	-.6043976671-024	.6674083321-024	61	.3593964253+021	-.3049990125+021
70	-.4063659786-031	.2603118827-031	70	.5762404342+028	.4908179204+028
71	-.5209516594-032	.4613034510-032	71	.3369581036+029	.3921304845+029
80	.5175409534-040	.8594514365-040	80	-.1988161187+037	.2453292056+037
81	.8095805604-041	.9698547486-041	81	-.1834437432+038	.1661381876+038
90	.5104282779-049	-.2801639793-049	90	-.3847105431+046	-.2883395533+046
91	.5165062676-050	-.3963658958-050	91	-.2973686327+047	-.3036900565+047
99	-.3197906657-058	-.1028271543-057	99	.1011508864+055	-.2125938495+055
100	-.4792534952-059	-.9834950010-059	100	.1287589452+056	-.1897729755+056

REAL X = .2000000000+002		IMAGINARY X = -.1000000000+002			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4920652032+003	.2131746264+002	0	.2131746107+002	-.4920652019+003
1	.4057371995+002	-.4813711993+003	1	-.4813712007+003	-.4057372150+002
2	-.4583140848+003	.7664758336+002	2	-.7664758186+002	.4583140833+003
3	-.1245717786+003	.4202102741+003	3	.4202102760+003	.1245717800+003
4	.3646045484+003	.1768664111+003	4	.1768664099+003	-.3646045462+003
5	.2239934520+003	-.2909095474+003	5	-.2909095501+003	-.2239934628+003
6	-.2020473247+003	-.2555880504+003	6	-.2555880502+003	.2020473216+003
7	-.2626051778+003	.1054714568+003	7	.1054714604+003	.2626051770+003
8	.1284278101+002	.2400693711+003	8	.2400693733+003	-.1284277726+002
9	.1897078827+003	.6215586108+002	9	.6215585772+002	-.1897078786+003
10	.1077159826+003	-.1207619213+003	10	-.1207619276+003	-.1077159845+003
11	-.4850645034+002	.1183551623+003	11	.1183551634+003	.4850644202+002
12	-.9789854228+002	-.1043779516+002	12	-.1043778607+002	.9789853605+002
13	-.4417319436+002	.5896809597+002	13	.5896810928+002	.4417320100+002
14	.1834872055+002	.5026981384+002	14	.5026981555+002	-.1834869996+002
15	.3630121817+002	.9987146010+001	15	.9987122732+001	-.3630119993+002
16	.2047275945+002	-.1537899753+002	16	-.1537903940+002	-.2047277186+002
17	.8729626805+000	-.1677540151+002	17	-.1677542531+002	-.8730249330+000
18	-.7507830645+001	-.7493490707+001	18	-.7495438584+001	.7507739238+001
19	-.6437888911+001	.1262805847+000	19	.1264491738+000	.6437854453+001
20	-.2633774913+001	.2670935068+001	20	.2671172822+001	.2633944064+001
30	-.8474033095+003	.1551415879+002	30	.1467931451+000	.4401798233+000
31	.5494800232+004	.6645989860+003	31	-.3313414505+000	.1137836056+001
40	-.2390588356+007	.8008492007+008	40	.1899647588+005	.1419485215+005
41	-.4657883582+008	.5311314746+008	41	.3157450130+005	.7605181577+005
50	-.1782235304+013	-.1854959489+013	50	.1652917802+011	.6196689218+010
51	-.5475792700+014	-.1703888934+014	51	.7958346215+011	-.1155328124+018
60	.1702320862+020	-.2821507468+020	60	-.1610276635+017	-.5801007474+018
61	.3153978408+022	-.6097172490+021	61	.2148880175+018	-.1762348019+024
70	.7101297917+028	.2833455106+028	70	-.2294509105+026	-.1333005891+026
71	.1206058841+028	-.1260382731+029	71	-.2294509105+026	.6768456564+033
80	-.1135644444+036	.3989802672+036	80	-.1050614560+033	.3928192675+034
81	.1152722398+037	.5636934194+037	81	-.2887406476+034	.8767527172+041
90	-.6206444122+045	-.1355765953+045	90	.3861737132+042	.2045235405+043
91	-.7566137393+046	.2018502506+046	91	.2430174499+043	-.7876955422+050
99	.1723366103+053	-.2246565865+053	99	-.1691585364+050	-.6871589459+051
100	.5702215275+055	-.3121265868+054	100	.1846891577+051	

REAL X = .2000000000+002		IMAGINARY X = -.1000000000+003	
N	FIRST KIND	N	SECOND KIND
0	REAL BESSEL	0	REAL BESSEL
0	.7633620871+041	0	.1074379472+042
1	.1065516904+042	1	-.7539559527+041
2	-.7354661448+041	2	-.1047993153+042
3	-.1022204407+042	3	.7085201462+041
4	.6740168449+041	4	.9887287044+041
5	.9483070226+041	5	-.6330791532+041
6	-.5869962090+041	6	-.9018190591+041
7	-.8502545455+041	7	.5371591506+041
8	.4849947581+041	8	.7946811675+041
9	.7362103371+041	9	-.4319012000+041
10	-.3791897380+041	10	-.6759622074+041
11	-.6150314000+041	11	.3280355676+041
12	.2794400987+041	12	.5544549133+041
13	.4951835891+041	13	-.2342059808+041
14	-.1929251673+041	14	-.4380583305+041
15	-.3837919966+041	15	.1559793638+041
16	.1235514110+041	16	.3329575628+041
17	.2859827633+041	17	-.9564555151+040
18	-.7211416438+040	18	-.2431510450+041
19	-.2046083033+041	19	.5268841867+040
20	.3701038463+040	20	.1703745627+041
30	.3995754981+039	30	-.1464906856+040
31	-.1071083664+040	31	-.3596281777+039
40	-.4143640619+038	40	.3172062416+038
41	.1939715016+038	41	.2964549791+038
50	.7170240971+036	50	.1113640710+036
51	.1083660736+036	51	-.4374859095+036
60	-.1900656035+034	60	-.3603405268+034
61	-.2237583754+034	61	.1068836568+034
70	-.5951139626+031	70	.7381005914+034
71	.4157020528+031	71	-.1286734058+036
80	.1142251452+029	80	-.5703227433+038
81	.1868176451+029	81	.2117849850+038
90	-.5041460872+024	90	.6274816715+041
91	-.2702344660+025	91	.2175133279+042
99	-.1487723105+022	99	.1491329670+045
100	-.1414801704+022	100	.2886162796+045
	IMAGINARY BESSEL		IMAGINARY BESSEL
	-.7633620871+041		-.7633620871+041
	-.1065516904+042		-.1065516904+042
	.7354661448+041		.7354661448+041
	.1022204407+042		.1022204407+042
	.6740168449+041		.6740168449+041
	.9483070226+041		.9483070226+041
	-.5869962090+041		-.5869962090+041
	-.8502545455+041		-.8502545455+041
	.4849947581+041		.4849947581+041
	.7362103371+041		.7362103371+041
	-.3791897380+041		-.3791897380+041
	-.6150314000+041		-.6150314000+041
	.2794400987+041		.2794400987+041
	.4951835891+041		.4951835891+041
	-.1929251673+041		-.1929251673+041
	-.3837919966+041		-.3837919966+041
	.1235514110+041		.1235514110+041
	.2859827633+041		.2859827633+041
	-.7211416438+040		-.7211416438+040
	-.2046083033+041		-.2046083033+041
	.3701038463+040		.3701038463+040
	.3995754981+039		.3995754981+039
	-.1071083664+040		-.1071083664+040
	-.4143640619+038		-.4143640619+038
	.1939715016+038		.1939715016+038
	.7170240971+036		.7170240971+036
	.1083660736+036		.1083660736+036
	-.1900656035+034		-.1900656035+034
	-.2237583754+034		-.2237583754+034
	-.5951139626+031		-.5951139626+031
	.4157020528+031		.4157020528+031
	.1142251452+029		.1142251452+029
	.1868176451+029		.1868176451+029
	-.5041460872+024		-.5041460872+024
	-.2702344660+025		-.2702344660+025
	-.1487723105+022		-.1487723105+022
	-.1414801704+022		-.1414801704+022

REAL X = .3000000000+002		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST REAL BESSEL	FIRST IMAGINARY BESSEL	IMAGINARY X	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY X	N	REAL BESSEL	IMAGINARY BESSEL	
0	-.3293438747-001	.0000000000		0	-.5141714996-002	.0000000000		0	-.5141714996-002	.0000000000	
1	-.6239527912-002	.0000000000		1	.3276299697-001	.0000000000		1	.3276299697-001	.0000000000	
2	.3231043468-001	.0000000000		2	.8418014693-002	.0000000000		2	.8418014693-002	.0000000000	
3	.1162460036-001	.0000000000		3	-.3135999452-001	.0000000000		3	-.3135999452-001	.0000000000	
4	-.2959802793-001	.0000000000		4	-.1573534675-001	.0000000000		4	-.1573534675-001	.0000000000	
5	-.2050400874-001	.0000000000		5	.2663939050-001	.0000000000		5	.2663939050-001	.0000000000	
6	.2207909139-001	.0000000000		6	.2550312326-001	.0000000000		6	.2550312326-001	.0000000000	
7	.3007196167-001	.0000000000		7	-.1558803708-001	.0000000000		7	-.1558803708-001	.0000000000	
8	-.7043910555-002	.0000000000		8	-.3329714180-001	.0000000000		8	-.3329714180-001	.0000000000	
9	-.3406351099-001	.0000000000		9	-.3280343274-002	.0000000000		9	-.3280343274-002	.0000000000	
10	-.1452964640-001	.0000000000		10	.3121959106-001	.0000000000		10	.3121959106-001	.0000000000	
11	.2389275850-001	.0000000000		11	.2513405702-001	.0000000000		11	.2513405702-001	.0000000000	
12	.3284742792-001	.0000000000		12	-.1195014735-001	.0000000000		12	-.1195014735-001	.0000000000	
13	.3480098099-002	.0000000000		13	-.3509251314-001	.0000000000		13	-.3509251314-001	.0000000000	
14	-.2071533964-001	.0000000000		14	-.1963311448-001	.0000000000		14	-.1963311448-001	.0000000000	
15	-.3220492641-001	.0000000000		15	.1611363581-001	.0000000000		15	.1611363581-001	.0000000000	
16	-.3563084325-002	.0000000000		16	.3628407815-001	.0000000000		16	.3628407815-001	.0000000000	
17	.2928553366-001	.0000000000		17	.2379865016-001	.0000000000		17	.2379865016-001	.0000000000	
18	.3656287359-001	.0000000000		18	-.8518986306-002	.0000000000		18	-.8518986306-002	.0000000000	
19	.1680867710-001	.0000000000		19	-.3430539993-001	.0000000000		19	-.3430539993-001	.0000000000	
20	-.1471159335-001	.0000000000		20	-.3607803361-001	.0000000000		20	-.3607803361-001	.0000000000	
20	.2805024955-001	.0000000000		30	-.6543068078-001	.0000000000		30	-.6543068078-001	.0000000000	
31	.1919317587-001	.0000000000		31	-.8438191151-001	.0000000000		31	-.8438191151-001	.0000000000	
40	.5454702353-004	.0000000000		40	-.1125486801+002	.0000000000		40	-.1125486801+002	.0000000000	
41	.2315151304-004	.0000000000		41	-.2514671280+002	.0000000000		41	-.2514671280+002	.0000000000	
50	.2690163713-008	.0000000000		50	-.1525515723+006	.0000000000		50	-.1525515723+006	.0000000000	
51	.8621656198-009	.0000000000		51	-.4619182927+006	.0000000000		51	-.4619182927+006	.0000000000	
60	.1152500392-013	.0000000000		60	-.2752553256+011	.0000000000		60	-.2752553256+011	.0000000000	
61	.2997924929-014	.0000000000		61	-.1035606925+012	.0000000000		61	-.1035606925+012	.0000000000	
70	.7455913894-020	.0000000000		70	-.3503905587+017	.0000000000		70	-.3503905587+017	.0000000000	
71	.1636582604-020	.0000000000		71	-.1567246504+018	.0000000000		71	-.1567246504+018	.0000000000	
80	.1015241324-026	.0000000000		80	-.2197658363+024	.0000000000		80	-.2197658363+024	.0000000000	
81	.1935577554-027	.0000000000		81	-.1136329329+025	.0000000000		81	-.1136329329+025	.0000000000	
90	.3649576412-034	.0000000000		90	-.5348590195+031	.0000000000		90	-.5348590195+031	.0000000000	
91	.6150915810-035	.0000000000		91	-.3134637311+032	.0000000000		91	-.3134637311+032	.0000000000	
99	.2677743510-041	.0000000000		99	-.6560775885+038	.0000000000		99	-.6560775885+038	.0000000000	
100	.4088859674-042	.0000000000		100	-.4249612402+039	.0000000000		100	-.4249612402+039	.0000000000	

REAL X = .3000000000+002		IMAGINARY X = -.1000000000-002		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.3293440373-001	0	.6239529311-005	0	-.514718659-002	0	-.514718659-002	0	.3276300234-004	0	.3276300234-004
1	.6239532109-002	1	.3251842424-004	1	.3276301307-001	1	.3276301307-001	1	.7325916367-005	1	.7325916367-005
2	.3231045041-001	2	.9470573291-005	2	.8418019938-002	2	.8418019938-002	2	-.3192120066-004	2	-.3192120066-004
3	.1162460712-001	3	.3076049286-004	3	-.3136000957-001	3	-.3136000957-001	3	-.1259934969-004	3	-.1259934969-004
4	-.2959804185-001	4	-.1655760801-004	4	-.1573535540-001	4	-.1573535540-001	4	.2873744121-004	4	.2873744121-004
5	-.2050401950-001	5	.2549723005-004	5	.2665940267-001	5	.2665940267-001	5	.2106322849-004	5	.2106322849-004
6	.2207990106-001	6	.2565598767-004	6	.2550313611-001	6	.2550313611-001	6	-.2068666474-004	6	-.2068666474-004
7	.3007197624-001	7	-.1406070350-004	7	-.1558804340-001	7	-.1558804340-001	7	-.2965993791-004	7	-.2965993791-004
8	-.7043912722-002	8	-.3218513980-004	8	-.32971573-001	8	-.32971573-001	8	.5598895082-005	8	.5598895082-005
9	-.3406352617-001	9	.4310594052-005	9	-.3280345823-002	9	-.3280345823-002	9	.3220369881-004	9	.3220369881-004
10	-.1452965374-001	10	.2873597802-004	10	.3121960428-001	10	.3121960428-001	10	.1472752906-004	10	.1472752906-004
11	.2389276790-001	11	.2408675339-004	11	.2513406845-001	11	.2513406845-001	11	-.2116597105-004	11	-.2116597105-004
12	.3284744182-001	12	-.9658874153-005	12	-.1195015128-001	12	-.1195015128-001	12	-.3031245843-004	12	-.3031245843-004
13	.3480100528-002	13	-.3122338624-004	13	-.3509252699-001	13	-.3509252699-001	13	-.4426359600-005	13	-.4426359600-005
14	-.2971535042-001	14	-.1833777042-004	14	-.1963312285-001	14	-.1963312285-001	14	.2527595899-004	14	.2527595899-004
15	-.3220493864-001	15	.1253938023-004	15	.1611384078-001	15	.1611384078-001	15	.2822716375-004	15	.2822716375-004
16	-.3563086574-002	16	.3018584876-004	16	.3628409066-001	16	.3628409066-001	16	.4447142478-005	16	.4447142478-005
17	.2826554231-001	17	.2053440685-004	17	.3279865874-001	17	.3279865874-001	17	-.2200489037-004	17	-.2200489037-004
18	.3656288510-001	18	-.51296447476-005	18	-.8518987974-002	18	-.8518987974-002	18	-.2919401116-004	18	-.2919401116-004
19	.1680868281-001	19	-.2535709124-004	19	-.3430540936-001	19	-.3430540936-001	19	-.1435128174-004	19	-.1435128174-004
20	-.1471159637-001	20	-.2710679484-004	20	-.3607804353-001	20	-.3607804353-001	20	.9050777176-005	20	.9050777176-005
30	.2805024937-001	30	-.8857073946-005	30	-.6543067906-001	30	-.6543067906-001	30	-.1895122982-004	30	-.1895122982-004
31	.1919317515-001	31	-.7577528734-005	31	-.8438190637-001	31	-.8438190637-001	31	-.2457668991-004	31	-.2457668991-004
40	.5454700276-004	40	-.4957784642-007	40	-.1125486304-002	40	-.1125486304-002	40	-.1014022039-001	40	-.1014022039-001
41	.2315150321-004	41	-.2213490260-007	41	-.2514670051+002	41	-.2514670051+002	41	-.2395052544-001	41	-.2395052544-001
50	.2690161373-008	50	-.3621439607-011	50	-.1525514256+006	50	-.1525514256+006	50	-.2076656006+003	50	-.2076656006+003
51	.8621648204-009	51	-.1195742969-011	51	-.4619178215+006	51	-.4619178215+006	51	-.6481065656+003	51	-.6481065656+003
60	.1152588691-013	60	-.2005387355-016	60	-.2752548874+011	60	-.2752548874+011	60	-.4850960033+008	60	-.4850960033+008
61	.2997920307-014	61	-.5330189795-017	61	-.1035605205+012	61	-.1035605205+012	61	-.1864997903+009	61	-.1864997903+009
70	.7455897561-020	70	-.1575853875-022	70	-.3503897414+017	70	-.3503897414+017	70	-.7496679289+014	70	-.7496679289+014
71	.1638578887-020	71	-.3523313081-023	71	-.1567272723+018	71	-.1567272723+018	71	-.3410998206+015	71	-.3410998206+015
80	.1015256261-026	80	-.2513749994-029	80	-.2197651367+024	80	-.2197651367+024	80	-.5502864969+021	80	-.5502864969+021
81	.1935571542-027	81	-.4861829717-030	81	-.1136325608+025	81	-.1136325608+025	81	-.2886197751+022	81	-.2886197751+022
90	.3649561976-034	90	-.1033362439-036	90	-.5348568024+031	90	-.5348568024+031	90	-.1530058083+029	90	-.1530058083+029
91	.6150890865-035	91	-.1763293242-037	91	-.3134623996+032	91	-.3134623996+032	91	-.9078015549+029	91	-.9078015549+029
99	.2677730402-041	99	-.8427654185-044	99	-.6560742386+038	99	-.6560742386+038	99	-.2084552731+036	99	-.2084552731+036
100	.4088839210-042	100	-.1301158632-044	100	-.4249590227+039	100	-.4249590227+039	100	-.1365092655+037	100	-.1365092655+037

REAL X = .3000000000+002		IMAGINARY X = -.1000000000-001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.3293601340-001	0	.6239667805-004	0	-.5142081296-002	0	-.5142081296-002	0	-.5142081296-002	0	.3276353367-003
1	-.6239947594-002	1	.3251894920-003	1	.3276460707-001	1	.3276460707-001	1	.3276460707-001	1	.7326072050-004
2	.3231200787-001	2	.9470762541-004	2	.8418539197-002	2	.8418539197-002	2	.8418539197-002	2	-.3192171120-003
3	.1162527638-001	3	-.3076097782-003	3	-.3136149963-001	3	-.3136149963-001	3	-.3136149963-001	3	-.1259958700-003
4	-.2959941976-001	4	-.1655790443-003	4	-.1573621183-001	4	-.1573621183-001	4	-.1573621183-001	4	.2873788515-003
5	-.2050508476-001	5	.2549761287-003	5	.266460787-001	5	.266460787-001	5	.266460787-001	5	.21063558949-003
6	.2208085835-001	6	.2565641043-003	6	.2550440789-001	6	.2550440789-001	6	.2550440789-001	6	-.2068896247-003
7	.3007341859-001	7	-.1406089056-003	7	-.1558866913-001	7	-.1558866913-001	7	-.1558866913-001	7	-.29666040860-003
8	-.7044127292-002	8	-.3218563135-003	8	-.329869215-001	8	-.329869215-001	8	-.329869215-001	8	.5598948691-004
9	-.3406502949-001	9	-.4310687567-004	9	-.3280598237-002	9	-.3280598237-002	9	-.3280598237-002	9	.3220417061-004
10	-.1453037989-001	10	.2873637898-003	10	.3122091218-001	10	.3122091218-001	10	.3122091218-001	10	.1472776670-003
11	.2389369768-001	11	.2408710846-003	11	.2513519997-001	11	.2513519997-001	11	.2513519997-001	11	-.2116624720-003
12	.3284881782-001	12	-.9658981231-004	12	-.1195054025-001	12	-.1195054025-001	12	-.1195054025-001	12	-.3031287715-003
13	.3480340996-002	13	.3122379153-003	13	-.3509389820-001	13	-.3509389820-001	13	-.3509389820-001	13	-.4426440368-004
14	-.2971641760-001	14	-.1833801780-003	14	-.1963395134-001	14	-.1963395134-001	14	-.1963395134-001	14	.2527626443-003
15	-.3220614907-001	15	.1253951405-003	15	.1611433257-001	15	.1611433257-001	15	.1611433257-001	15	.2822751047-003
16	.3563309258-002	16	.3018619143-003	16	.3628532925-001	16	.3628532925-001	16	.3628532925-001	16	.4447208978-004
17	.2828639864-001	17	.2053463817-003	17	.2379950887-001	17	.2379950887-001	17	.2379950887-001	17	-.2200511921-003
18	.3656402414-001	18	-.5129089729-004	18	-.8519153082-002	18	-.8519153082-002	18	-.8519153082-002	18	-.2919430885-003
19	.1690924722-001	19	-.2535732731-003	19	-.3430634314-001	19	-.3430634314-001	19	-.3430634314-001	19	-.1435142285-003
20	-.1471189531-001	20	-.2710703148-003	20	-.3607902586-001	20	-.3607902586-001	20	-.3607902586-001	20	.9050853182-004
30	.2805023232-001	30	-.8857101013-004	30	-.6543050856-001	30	-.6543050856-001	30	-.6543050856-001	30	-.1895114054-003
31	.1919310303-001	31	-.7577540548-004	31	-.8438139830-001	31	-.8438139830-001	31	-.8438139830-001	31	-.2457653396-003
40	.5454494631-004	40	-.4957732703-004	40	-.1125437151+002	40	-.1125437151+002	40	-.1125437151+002	40	-.1014004896+000
41	.2315052958-004	41	-.2213463858-006	41	-.2514548461+002	41	-.2514548461+002	41	-.2514548461+002	41	-.2395008369+000
50	.2689929195-008	50	-.3621343470-010	50	-.1525368965+006	50	-.1525368965+006	50	-.1525368965+006	50	-.2076585128+004
51	.8620856892-009	51	-.1195709071-010	51	-.4618711732+006	51	-.4618711732+006	51	-.4618711732+006	51	-.6480831911+004
60	.1152420350-013	60	-.2005294707-015	60	-.2752115041+011	60	-.2752115041+011	60	-.2752115041+011	60	-.4850692447+009
61	.2997462706-014	61	-.5329932000-016	61	-.1035434901+012	61	-.1035434901+012	61	-.1035434901+012	61	-.1864890725+010
70	.7454280613-020	70	-.1575744357-021	70	-.3503088360+017	70	-.3503088360+017	70	-.3503088360+017	70	-.7496080388+015
71	.1638210933-020	71	-.3523059301-022	71	-.1566868415+018	71	-.1566868415+018	71	-.1566868415+018	71	-.3410716581+016
80	.1014934993-026	80	-.2513507532-028	80	-.2196958786+024	80	-.2196958786+024	80	-.2196958786+024	80	-.5502269048+022
81	.1934976340-027	81	-.4861346688-029	81	-.1135957241+025	81	-.1135957241+025	81	-.1135957241+025	81	-.2885876415+023
90	.5648132870-034	90	-.1033231126-035	90	-.5466373175+031	90	-.5466373175+031	90	-.5466373175+031	90	-.1529843312+030
91	.6148421433-035	91	-.1763063420-036	91	-.3133305927+032	91	-.3133305927+032	91	-.3133305927+032	91	-.9076710340+030
99	.2676432832-041	99	-.8426324610-043	99	-.6557426310+038	99	-.6557426310+038	99	-.6557426310+038	99	-.2084193414+037
100	.4086813348-042	100	-.1300948682-043	100	-.4247395077+039	100	-.4247395077+039	100	-.4247395077+039	100	-.1364852248+038

REAL X = .3000000000+002		IMAGINARY X = -.1000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	SECOND KIND	N	IMAGINARY BESSEL	N	REAL BESSEL
0	.3309711217-001	0	-.6253525879-003	0	-.5178383900-002	0	-.6253525879-003	0	.3309711217-001
1	.6281539231-002	1	.3257147006-002	1	.3292413667-001	1	.3257147006-002	1	.6281539231-002
2	.3246787952-001	2	.0489698464-003	2	.8470516265-002	2	.0489698464-003	2	.3246787952-001
3	.1169226516-001	3	-.3080949612-002	3	-.3151062339-001	3	-.3080949612-002	3	.1169226516-001
4	-.2073731836-001	4	-.1658756219-001	4	-.1582193156-001	4	-.1658756219-001	4	-.2073731836-001
5	-.2061170281-001	5	.2553591288-002	5	.2676121847-001	5	.2553591288-002	5	-.2061170281-001
6	.2217665695-001	6	.2569870820-002	6	.2563169048-001	6	.2569870820-002	6	.2217665695-001
7	.3021776872-001	7	-.1407960380-002	7	-.3345223940-001	7	-.1407960380-002	7	.3021776872-001
8	-.7065503894-002	8	-.3223480799-002	8	-.3305864562-002	8	-.3223480799-002	8	-.7065503894-002
9	-.3421547204-001	9	-.4320044177-003	9	.3135179449-001	9	-.4320044177-003	9	-.3421547204-001
10	-.1460305229-001	10	.2877649181-002	10	.2524843488-001	10	.2877649181-002	10	-.1460305229-001
11	.2398673457-001	11	.2412263053-002	11	.1971685522-001	11	.2412263053-002	11	.2398673457-001
12	.2298651320-001	12	-.9669693040-003	12	-.1198946001-001	12	-.9669693040-003	12	.2298651320-001
13	.350496995-002	13	-.3126433667-002	13	-.3523110876-001	13	-.3126433667-002	13	.350496995-002
14	-.2982320275-001	14	-.1836276628-002	14	.1616353949-001	14	-.1836276628-002	14	-.2982320275-001
15	-.3232726584-001	15	.1255290064-002	15	.3640925913-001	15	.1255290064-002	15	-.3232726584-001
16	-.358559118-002	16	.3022047048-002	16	.2388456749-001	16	.3022047048-002	16	-.358559118-002
17	.237207864-001	17	.205577732-002	17	.8535673645-002	17	.205577732-002	17	.237207864-001
18	.3657708722-001	18	-.5133317075-003	18	-.8535673645-002	18	-.5133317075-003	18	.3657708722-001
19	.1566571332-001	19	-.2538094198-002	19	-.3439976714-001	19	-.2538094198-002	19	.1566571332-001
20	-.1474180524-001	20	-.2713070143-002	20	-.3617730176-001	20	-.2713070143-002	20	-.1474180524-001
30	.2804852304-001	30	-.8859807743-003	30	-.6541347341-001	30	-.8859807743-003	30	.2804852304-001
31	.1918588866-001	31	-.7578721835-003	31	-.8433061557-001	31	-.7578721835-003	31	.1918588866-001
40	.5433938750-004	40	-.4952539756-005	40	-.1120526583+002	40	-.4952539756-005	40	.5433938750-004
41	.2305321456-004	41	-.2210824239-005	41	-.2502402072-002	41	-.2210824239-005	41	.2305321456-004
50	.2666739828-008	50	-.3611736223-009	50	-.1510866047+006	50	-.3611736223-009	50	.2666739828-008
51	.8541829684-009	51	-.1192321739-009	51	-.4572153985+006	51	-.1192321739-009	51	.8541829684-009
60	.1135623330-013	60	-.1996041481-014	60	-.2708856222+011	60	-.1996041481-014	60	.1135623330-013
61	.2951808544-014	61	-.5304186400-015	61	-.1018456222+012	61	-.5304186400-015	61	.2951808544-014
70	.7293130047-020	70	-.1564813744-020	70	-.3422520793+017	70	-.1564813744-020	70	.7293130047-020
71	.1601544003-020	71	-.3497732404-021	71	-.1524959898+018	71	-.3497732404-021	71	.1601544003-020
80	.9847509630-027	80	-.2489327593-027	80	-.2128089939+024	80	-.2489327593-027	80	.9847509630-027
81	.1875744922-027	81	-.4813179885-028	81	-.1099333283+025	81	-.4813179885-028	81	.1875744922-027
90	.3506112541-034	90	-.1020147606-034	90	-.5128479463+031	90	-.1020147606-034	90	.3506112541-034
91	.5903056775-035	91	-.1740167037-035	91	-.3002477315+032	91	-.1740167037-035	91	.5903056775-035
99	.2547682268-041	99	-.8293971491-042	99	-.6228760194+038	99	-.8293971491-042	99	.2547682268-041
100	.3885834644-042	100	-.1280051301-042	100	-.4029868759+039	100	-.1280051301-042	100	.3885834644-042

IMAGINARY BESSEL

REAL X = .3000000000+002		IMAGINARY X = -.5000000000+000		SECOND KIND	
FIRST KIND		IMAGINARY BESSEL		REAL BESSEL	
N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL
0	-.3708271431-001	0	-.3297368785-002	0	-.6082274393-002
1	-.731610244-002	1	.1693010590-001	1	.3687055266-001
2	.3632308945-001	2	.4977718961-002	2	.9761870018-002
3	.1335453417-001	3	-.1599984701-001	3	-.3519789172-001
4	-.3314569246-001	4	-.8658059981-002	4	-.1794675766-001
5	-.2325220226-001	5	.1323746788-001	5	.2974070141-001
6	.2454137942-001	6	.1336839299-001	6	.2878149085-001
7	.3378732408-001	7	-.7268912224-002	7	-.1719475346-001
8	-.7591851312-002	8	-.1672035696-001	8	-.3724792104-001
9	-.3793030784-001	9	-.2275006451-002	9	-.3933615193-002
10	-.1639999865-001	10	.1487965538-001	10	.3458105037-001
11	.2627994903-001	11	.1249659257-001	11	.2804420105-001
12	.5638273011-001	12	-.4965888884-002	12	-.1294677806-001
13	.4099524663-002	13	-.1612850874-001	13	-.3861232487-001
14	-.3245232207-001	14	-.9484262185-002	14	-.2175992963-001
15	-.3530863146-001	15	.6440233685-002	15	.1737374117-001
16	-.4134016097-002	16	.1552940130-001	16	.3945720384-001
17	.3047784995-001	17	.1056159155-001	17	.2597482523-001
18	.3947632611-001	18	-.2618505989-002	18	-.8942113928-002
19	.1824990828-001	19	-.1297895296-001	19	-.3669251927-001
20	-.1547600121-001	20	-.1385414245-001	20	-.3858573296-001
30	.2800481446-001	30	-.4462732639-002	30	-.6500934228-001
31	.1900906527-001	31	-.3803629261-002	31	-.8311432162-001
40	.4940817295-004	40	-.2413606550-004	40	-.1004322131+002
41	.2072305291-004	41	-.1073597001-004	41	-.2215531929+002
50	.2121671993-008	50	-.1691352650-008	50	-.1175177009+006
51	.6688512859-009	51	-.5558390922-009	51	-.3497151681+006
60	.7504929651-014	60	-.3893232602-014	60	-.1734437823+011
61	.1907896920-014	61	-.2350145496-014	61	-.6371308690+011
70	.3706136911-020	70	-.6562075115-020	70	-.1665106352+017
71	.7880253052-021	71	-.1457004571-020	71	-.7194801170+017
80	.3357695780-027	80	-.9710468679-027	80	-.6807785531+023
81	.6069806676-026	81	-.1862719136-027	81	-.3327413254+024
90	.5716749381-035	90	-.3653769788-034	90	-.7395387094+030
91	.8549050210-036	91	-.6174808870-035	91	-.3791703100+031
99	-.7341588418-044	99	-.2716611106-041	99	.1144449575+037
100	-.8361102602-044	100	-.4147927283-042	100	.14732773164+039

IMAGINARY BESSEL	
0	.1706058346-001
1	.3862518873-002
2	-.1661300498-001
3	-.6603475354-002
4	.1493577927-001
5	.1099325596-001
6	-.1072433986-001
7	-.1543137077-001
8	.2867547307-002
9	.1670417477-001
10	.7667315534-002
11	-.1093521080-001
12	-.1569040594-001
13	-.2316262884-002
14	.1302732422-001
15	.1455536656-001
16	.2308175803-002
17	-.1129389707-001
18	-.1497580422-001
19	-.7354891370-002
20	.4622314661-002
30	-.9363307043-002
31	-.1209255444-001
40	-.4857122170+001
41	-.1142704436+002
50	-.9514307060+005
51	-.2954385884+006
60	-.2102727750+011
61	-.8034556814+011
70	-.3039697073+017
71	-.1372959621+018
80	-.2061666674+024
81	-.1072035232+025
90	-.5225316275+031
91	-.3069177937+032
99	-.6464866045+038
100	-.4185003929+039

REAL X = .3000000000+002		IMAGINARY X = -.1000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5056281630-001	-.7727976811-002	0	-.9213994118-002	.3839739833-001
1	-.1088897260-001	.3808396645-001	1	.5021340762-001	.8996243132-002
2	.4934832182-001	.1149589031-001	2	.1419980761-001	-.3733158023-001
3	.1904077029-001	-.3589625818-001	3	-.4764223221-001	-.1513246732-001
4	-.4463152319-001	.1971445726-001	4	-.2518642414-001	.3343445064-001
5	-.3221844082-001	.2954266532-001	5	.3976071770-001	.2490008537-001
6	.3247053008-001	.3014140144-001	6	.3944517653-001	-.2382912759-001
7	.4583849466-001	-.1602738956-001	7	-.2234296242-001	-.4464544881-001
8	-.9309893630-002	-.3738307501-001	8	-.5002747548-001	.6153659887-002
9	-.5040290474-001	-.5308499942-002	9	-.6090583320-002	.3718473789-001
10	-.2246457274-001	.3296187616-001	10	.4539024739-001	.1724209984-001
11	.3392690005-001	.2783261310-001	11	.3742662301-001	-.2407073335-001
12	.4773583904-001	-.1078116391-001	12	-.1611389140-001	-.3472045021-001
13	.6107959415-002	-.3548242104-001	13	-.4987657561-001	-.5277973580-002
14	-.4118148554-001	-.2093453658-001	14	-.2856704196-001	.2848090954-001
15	-.4519873729-001	.1394267642-001	15	.2137571781-001	.3185949088-001
16	-.5951753797-002	.3377086090-001	16	.4953460394-001	.5139483097-002
17	.3742218383-001	.2294660212-001	17	.3286363287-001	-.2439808111-001
18	.4867115579-001	-.5576486693-002	18	-.1028849146-001	-.3229570731-001
19	.2276795261-001	-.2781738116-001	19	-.4421245012-001	-.1581158515-001
20	-.1790158595-001	-.2956045649-001	20	-.4643949391-001	.9849713775-002
30	.2783967877-001	-.9131111443-002	30	-.6385389480-001	-.1806254120-001
31	.1843242374-001	-.7695162753-002	31	-.7949230425-001	-.2303665691-001
40	.3463809872-004	-.4442541643-004	40	-.6747183678+001	-.8516247924+001
41	.1379664671-004	-.1952801676-004	41	-.1408382420+002	-.1978532504+002
50	.6216261049-009	-.2713715716-008	50	-.3070283218+005	-.1439969377+006
51	.1637179105-009	-.8774065547-009	51	-.7465414687+005	-.4393893371+006
60	-.2006972051-014	-.1180611377-013	60	.5020614470+010	-.2598902230+011
61	-.6387406123-015	-.3050076447-014	61	.2263033674+011	-.9693885727+011
70	-.4014157588-020	-.6667600054-020	70	.1804071894+017	-.2827864442+017
71	-.9357339819-021	-.1432723160-020	71	.8526353325+017	-.1233651947+018
80	-.8370300450-027	-.6584615676-027	80	.1681001628+024	-.1247956435+024
81	-.1640550807-027	-.1198053960-027	81	.8913699482+024	-.6133079348+024
90	-.3663130424-034	-.1178391581-034	90	.4869249974+031	-.1410878601+031
91	-.6243140310-035	-.1768163816-035	91	.2879665592+032	-.7251347366+031
99	-.2836579527-041	.1274267512-043	99	.6185809253+038	.2133704112+037
100	-.43330357517-042	.1706484020-043	100	.3997360583+039	.2780525511+038

REAL X = .3000000000+002		IMAGINARY X = -.3000000000+001		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	FIRST KIND	IMAGINARY BESSEL	N	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
0	-.3231894805+000	-.8382800580-001	-.8382800580-001	0	-.8391911496-001	.3215406630+000	.3215406630+000	0	-.8391911496-001	.3215406630+000	.3215406630+000
1	-.9430677436-001	.3177074302+000	.3177074302+000	1	.3193586824+000	.9416294809-001	.9416294809-001	1	.3193586824+000	.9416294809-001	.9416294809-001
2	.3107063600+000	.1143504368+000	.1143504368+000	2	.1146064801+000	.3090556317+000	.3090556317+000	2	.1146064801+000	.3090556317+000	.3090556317+000
3	.1436934800+000	-.2937105535+000	-.2937105535+000	3	-.2953467941+000	-.1432710312+000	-.1432710312+000	3	-.2953467941+000	-.1432710312+000	-.1432710312+000
4	-.2707244541+000	-.1788847087+000	-.1788847087+000	4	-.1795285209+000	.2691335203+000	.2691335203+000	4	-.1795285209+000	.2691335203+000	.2691335203+000
5	-.2187932770+000	.2325351612+000	.2325351612+000	5	.2340274259+000	.2178791505+000	.2178791505+000	5	.2340274259+000	.2178791505+000	.2178791505+000
6	.1828526810+000	.2553604238+000	.2553604238+000	6	.2565791684+000	-.1815394337+000	-.1815394337+000	6	.2565791684+000	-.1815394337+000	-.1815394337+000
7	.2862888646+000	-.1151294188+000	-.1151294188+000	7	-.1161551337+000	-.2847590092+000	-.2847590092+000	7	-.1161551337+000	-.2847590092+000	-.2847590092+000
8	-.3542604417-001	-.2981824695+000	-.2981824695+000	8	-.2999847292+000	.3481937303-001	.3481937303-001	8	-.2999847292+000	.3481937303-001	.3481937303-001
9	-.2894351534+000	-.5415527614-001	-.5415527614-001	9	-.5410669236-001	.2874638046+000	.2874638046+000	9	-.5410669236-001	.2874638046+000	.2874638046+000
10	-.1426720710+000	.2460743164+000	.2460743164+000	10	.2480306571+000	.1420456294+000	.1420456294+000	10	.2480306571+000	.1420456294+000	.1420456294+000
11	.1734988644+000	.2148136687+000	.2148136687+000	11	.2161643614+000	-.1718260952+000	-.1718260952+000	11	.2161643614+000	-.1718260952+000	-.1718260952+000
12	.2580648910+000	-.6984455507-001	-.6984455507-001	12	-.7050257822-001	-.2560661611+000	-.2560661611+000	12	-.7050257822-001	-.2560661611+000	-.2560661611+000
13	.4518871515-001	-.2511487067+000	-.2511487067+000	13	-.2535372874+000	-.4529966301-001	-.4529966301-001	13	-.2535372874+000	-.4529966301-001	-.4529966301-001
14	-.1954181313+000	-.1499246050+000	-.1499246050+000	14	-.1509851337+000	.1931076932+000	.1931076932+000	14	-.1509851337+000	.1931076932+000	.1931076932+000
15	-.2178733506+000	.8895312499-001	.8895312499-001	15	.9054780932-001	.2156714853+000	.2156714853+000	15	.9054780932-001	.2156714853+000	.2156714853+000
16	-.3658941178-001	.2186420798+000	.2186420798+000	16	.2215594071+000	.3681026689-001	.3681026689-001	16	.2215594071+000	.3681026689-001	.3681026689-001
17	.1542109924+000	.1451869270+000	.1451869270+000	17	.1467454761+000	-.1514508609+000	-.1514508609+000	17	.1467454761+000	-.1514508609+000	-.1514508609+000
18	.1979501541+000	-.3312125743-001	-.3312125743-001	18	-.3455710759-001	-.1948027101+000	-.1948027101+000	18	-.3455710759-001	-.1948027101+000	-.1948027101+000
19	.9155482778-001	-.1614598958+000	-.1614598958+000	19	-.1651561346+000	-.9064688068-001	-.9064688068-001	19	-.1651561346+000	-.9064688068-001	-.9064688068-001
20	-.5932533964-001	-.1629141257+000	-.1629141257+000	20	-.1663526751+000	.5687078691-001	.5687078691-001	20	-.1663526751+000	.5687078691-001	.5687078691-001
30	.2302693375-001	-.3403039435-001	-.3403039435-001	30	-.6012638035-001	-.3505338992-001	-.3505338992-001	30	-.6012638035-001	-.3505338992-001	-.3505338992-001
31	.9863681476-002	-.2546352527-001	-.2546352527-001	31	-.5447026303-001	-.3848597365-001	-.3848597365-001	31	-.5447026303-001	-.3848597365-001	-.3848597365-001
40	-.6635760736-004	-.2995345758-004	-.2995345758-004	40	.7418848388+001	-.3527026102+001	-.3527026102+001	40	.7418848388+001	-.3527026102+001	-.3527026102+001
41	-.2967561187-004	-.8639728900-005	-.8639728900-005	41	.1763902235+002	-.5290666344+001	-.5290666344+001	41	.1763902235+002	-.5290666344+001	-.5290666344+001
50	-.2325954461-008	.2823722005-008	.2823722005-008	50	.6659668499+005	.8878840238+005	.8878840238+005	50	.6659668499+005	.8878840238+005	.8878840238+005
51	-.6319904117-009	.9918827593-009	.9918827593-009	51	.1661616407+006	.2911042218+006	.2911042218+006	51	.1661616407+006	.2911042218+006	.2911042218+006
60	.7616559149-014	.1434588705-013	.1434588705-013	60	-.1021827707+011	.1647136914+011	.1647136914+011	60	-.1021827707+011	.1647136914+011	.1647136914+011
61	.2401559245-014	.3496087379-014	.3496087379-014	61	-.4514052886+011	.5692469325+011	.5692469325+011	61	-.4514052886+011	.5692469325+011	.5692469325+011
70	.1094524392-019	-.3797782251-021	-.3797782251-021	70	-.2354888075+017	-.2655535817+016	-.2655535817+016	70	-.2354888075+017	-.2655535817+016	-.2655535817+016
71	.2392189086-020	-.3476275759-021	-.3476275759-021	71	-.1029424774+018	-.2330740030+017	-.2330740030+017	71	-.1029424774+018	-.2330740030+017	-.2330740030+017
80	.6610852096-027	-.1402027623-026	-.1402027623-026	80	-.5127068229+023	-.1327206449+024	-.1327206449+024	80	-.5127068229+023	-.1327206449+024	-.1327206449+024
81	.1009904167-027	-.2809145485-027	-.2809145485-027	81	-.1890587847+024	-.7075620363+024	-.7075620363+024	81	-.1890587847+024	-.7075620363+024	-.7075620363+024
90	-.3363793205-034	-.4805266887-034	-.4805266887-034	90	.2126729313+031	-.2534807366+031	-.2534807366+031	90	.2126729313+031	-.2534807366+031	-.2534807366+031
91	-.6520265468-035	-.7491725092-035	-.7491725092-035	91	.1389806837+032	-.1339530789+032	-.1339530789+032	91	.1389806837+032	-.1339530789+032	-.1339530789+032
99	-.4487865665-041	-.6983832839-043	-.6983832839-043	99	.3881652251+038	.2882293571+037	.2882293571+037	99	.3881652251+038	.2882293571+037	.2882293571+037
100	-.6858888578-042	.6108590648-043	.6108590648-043	100	.2469416662+039	.4460992794+038	.4460992794+038	100	.2469416662+039	.4460992794+038	.4460992794+038

REAL X = .3000000000+002		IMAGINARY X = -.1000000000+002		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL		REAL BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	.3094546009+003	0	.1597784383+003	0	-.1597784383+003	0	-.1597784383+003	0	-.1597784383+003	0	-.1597784383+003	0	.3094545995+003
1	.1674642917+003	1	.3015667003+003	1	.3015667003+003	1	.3015667003+003	1	.3015667017+003	1	.3015667017+003	1	.1674642919+003
2	.2853358136+003	2	.1818955125+003	2	.1818955125+003	2	.1818955125+003	2	.1818955124+003	2	.1818955124+003	2	-.2853335812+003
3	.2011698881+003	3	-.2600159827+003	3	-.2600159827+003	3	-.2600159827+003	3	-.2600155843+003	3	-.2600155843+003	3	-.2011698881+003
4	-.2248890463+003	4	-.2224168927+003	4	-.2224168927+003	4	-.2224168927+003	4	-.2224168929+003	4	-.2224168929+003	4	.2248890447+003
5	-.2418724102+003	5	.1797230075+003	5	.1797230075+003	5	.1797230075+003	5	.1797230091+003	5	.1797230091+003	5	.2418724098+003
6	.1253016201+003	6	.2551195201+003	6	.2551195201+003	6	.2551195201+003	6	.2551195209+003	6	.2551195209+003	6	-.1253016185+003
7	.2575745045+003	7	-.6393710407+002	7	-.6393710407+002	7	-.6393710407+002	7	-.6393718559+002	7	-.6393718559+002	7	-.2575745033+003
8	.1974845025+000	8	-.2452550773+003	8	-.2452550773+003	8	-.2452550773+003	8	-.2452550789+002	8	-.2452550789+002	8	-.1974857986+000
9	-.2157804242+003	9	-.6110933296+002	9	-.6110933296+002	9	-.6110933296+002	9	-.6110933207+002	9	-.6110933207+002	9	.2157804221+003
10	-.1115815531+003	10	.1694244769+003	10	.1694244769+003	10	.1694244769+003	10	.1694244794+003	10	.1694244794+003	10	.1115815533+003
11	.1099049057+003	11	.1444146272+003	11	.1444146272+003	11	.1444146272+003	11	.1444146279+003	11	.1444146279+003	11	-.1099049028+003
12	.1542005737+003	12	-.4450025576+002	12	-.4450025576+002	12	-.4450025576+002	12	-.4450025852+002	12	-.4450025852+002	12	-.1542005718+003
13	.1687058855+002	13	-.1392396756+003	13	-.1392396756+003	13	-.1392396756+003	13	-.1392396788+003	13	-.1392396788+003	13	-.1687059067+002
14	-.1029406846+003	14	-.6372882260+002	14	-.6372882260+002	14	-.6372882260+002	14	-.6372882187+002	14	-.6372882187+002	14	.1029406801+003
15	-.8794762555+002	15	.5394280146+002	15	.5394280146+002	15	.5394280146+002	15	.5394280659+002	15	.5394280659+002	15	.8794762403+002
16	.4427124338+001	16	.8663186404+002	16	.8663186404+002	16	.8663186404+002	16	.8663186855+002	16	.8663186855+002	16	-.4427119726+001
17	.6374196351+002	17	.328369497+002	17	.328369497+002	17	.328369497+002	17	.328369278+002	17	.328369278+002	17	-.6374195593+002
18	.5085264411+002	18	-.2937429709+002	18	-.2937429709+002	18	-.2937429709+002	18	-.2937430655+002	18	-.2937430655+002	18	-.5085264153+002
19	.3572961374+001	19	-.4707360642+002	19	-.4707360642+002	19	-.4707360642+002	19	-.4707369568+002	19	-.4707369568+002	19	-.3572969588+001
20	-.2831354160+002	20	-.2430846108+002	20	-.2430846108+002	20	-.2430846108+002	20	-.2430845926+002	20	-.2430845926+002	20	.2831352580+002
30	-.8752294514+000	30	.5039368538+000	30	.5039368538+000	30	.5039368538+000	30	.5045598981+000	30	.5045598981+000	30	.8753351889+000
31	-.2660704767+000	31	.5351238704+000	31	.5351238704+000	31	.5351238704+000	31	.5358555250+000	31	.5358555250+000	31	.2660284898+000
40	-.9218645537+003	40	-.7168715791+003	40	-.7168715791+003	40	-.7168715791+003	40	.3345718507+000	40	.3345718507+000	40	-.2538000010+000
41	-.4872103131+003	41	-.1073957452+003	41	-.1073957452+003	41	-.1073957452+003	41	.9386851924+000	41	.9386851924+000	41	-.1742582039+000
50	.6652356626+007	50	-.2545660066+007	50	-.2545660066+007	50	-.2545660066+007	50	-.44735561260+004	50	-.44735561260+004	50	-.2572608302+004
51	.1714608798+007	51	.1620777774+007	51	.1620777774+007	51	.1620777774+007	51	-.9174116865+004	51	-.9174116865+004	51	-.1210316226+005
60	-.2325762448+012	60	.3785755741+012	60	.3785755741+012	60	.3785755741+012	60	.2149393421+009	60	.2149393421+009	60	.6222082916+009
61	-.2195947165+013	61	.1184681204+012	61	.1184681204+012	61	.1184681204+012	61	-.9308133116+008	61	-.9308133116+008	61	.2377546005+010
70	.3638861076+019	70	-.4432699079+018	70	-.4432699079+018	70	-.4432699079+018	70	.9177816590+014	70	.9177816590+014	70	-.5399578238+015
71	-.2752635591+019	71	-.9853067027+019	71	-.9853067027+019	71	-.9853067027+019	71	.1174057687+016	71	.1174057687+016	71	-.2026871829+016
80	.2669026915+025	80	.9276650660+025	80	.9276650660+025	80	.9276650660+025	80	-.1131474732+022	80	-.1131474732+022	80	.1848533477+022
81	.1131448797+025	81	.1563842107+025	81	.1563842107+025	81	.1563842107+025	81	-.8352290223+022	81	-.8352290223+022	81	.6670352826+022
90	-.3055966545+032	90	-.4721734786+032	90	-.4721734786+032	90	-.4721734786+032	90	.2464905330+029	90	.2464905330+029	90	-.2140810433+029
91	-.7890970190+033	91	-.6068660492+033	91	-.6068660492+033	91	-.6068660492+033	91	.1698868008+030	91	.1698868008+030	91	-.6647666242+029
99	.3000522383+039	99	.5688454520+039	99	.5688454520+039	99	.5688454520+039	99	-.1799934992+036	99	-.1799934992+036	99	.1840505539+036
100	.7565907014+040	100	.7020267668+040	100	.7020267668+040	100	.7020267668+040	100	-.1423004405+037	100	-.1423004405+037	100	.7023335679+036

REAL X = .3000000000+002		IMAGINARY X = -.1000000000+003			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1752924115+041	-.1275384649+042	0	-.1275384649+042	.1752924115+041
1	-.1264166329+042	.1701739912+041	1	.1701739912+041	-.1264166329+042
2	.1601706530+041	.1241996187+042	2	.1241996187+042	-.1601706530+041
3	.1209398210+042	-.1457350229+041	3	-.1457350229+041	-.1209398210+042
4	-.1275111906+041	-.1167136151+042	4	-.1167136151+042	.1275111906+041
5	-.1116187704+042	.1062958640+041	5	.1062958640+041	-.1116187704+042
6	.8299124635+040	.1057711487+042	6	.1057711487+042	-.8299124635+040
7	.9930080392+041	-.5855310252+040	7	-.5855310252+040	-.9930080392+041
8	-.3393773521+040	-.9234763342+041	8	-.9234763342+041	.3393773521+040
9	-.8505675325+041	.1005153552+040	9	.1005153552+040	-.8505675325+041
10	-.1229358690+040	.7757378997+041	10	.7757378997+041	-.1229358690+040
11	.7004028950+041	.3241620249+040	11	.3241620249+040	-.7004028950+041
12	.4979090174+040	-.6258944283+041	12	-.6258944283+041	-.4979090174+040
13	-.5534231475+041	-.6406240128+040	13	-.6406240128+040	.5534231475+041
14	-.7504817366+040	.4840473601+041	14	.4840473601+041	-.7504817366+040
15	.4186498214+041	.8273042872+040	15	.8273042872+040	-.4186498214+041
16	.8723899999+040	-.3579231633+041	16	-.3579231633+041	-.8723899999+040
17	-.3023642205+041	-.8882723897+040	17	-.8882723897+040	.3023642205+041
18	-.8784532064+040	.2522769823+041	18	.2522769823+041	-.8784532064+040
19	.2077834021+041	.8469945585+040	19	.8469945585+040	-.2077834021+041
20	.7984136676+040	-.1688408693+041	20	-.1688408693+041	-.7984136676+040
30	-.1639298015+040	.7717322318+039	30	.7717322318+039	-.1639298015+040
31	.4774402034+039	.1279407986+040	31	.1279407986+040	-.4774402034+039
40	.6317359113+038	.3424091694+038	40	.3424091694+038	-.6317359113+038
41	.2812342854+038	-.4082264644+038	41	-.4082264644+038	-.2812342854+038
50	.1075022664+036	-.1182945378+037	50	-.1182945378+037	-.1075022664+036
51	-.7338034437+036	-.1631801381+036	51	-.1631801381+036	.7338034437+036
60	-.8332326883+034	.9134640517+033	60	.9134640517+033	-.8332326883+034
61	-.1872104674+033	.4875487981+034	61	.4875487981+034	-.1872104674+033
70	.324388682+031	.2575273219+032	70	-.2575273219+032	-.324388682+031
71	.1392558439+032	.5491297639+030	71	-.5491297639+030	-.1392558439+032
80	.3633979378+029	.7376451350+027	80	-.7376451350+027	-.3633979378+029
81	.3587903640+028	-.1769779364+029	81	-.1769779364+029	-.3587903640+028
90	.7179869312+025	-.2264739603+026	90	-.2264739603+026	-.7179869312+025
91	-.9616801903+025	-.52509266053+025	91	-.52509266053+025	.9616801903+025
99	.8497965186+022	-.1508152982+023	99	-.1508152982+023	-.8497965186+022
100	-.5647850945+022	-.4915084915+022	100	-.4915084915+022	.5647850945+022

REAL X = .5000000000+002		IMAGINARY X = .0000000000	
N	FIRST KIND REAL BESSEL	N	SECOND KIND REAL BESSEL
0	-.5247497074-002	0	-.1929932057-001
1	-.1940427051-001	1	.4861510663-002
2	.4083240843-002	2	.1959101121-001
3	.1981259460-001	3	-.2902409542-002
4	-.1309477600-002	4	-.1999734855-001
5	-.2004830056-001	5	-.6971131965-003
6	-.3101143524-002	6	.1904398364-001
7	.1924200195-001	7	.5856548943-002
8	.8873749108-002	8	-.1808701896-001
9	-.1622492725-001	9	-.1200613539-001
10	-.1503922146-001	10	.1352468751-001
11	.9908454236-002	11	.1768650414-001
12	.1959711043-001	12	-.5388895605-002
13	-.1098990300-003	13	-.2038095195-001
14	-.1965645519-001	14	-.5616818446-002
15	-.1129084539-001	15	.1712519725-001
16	.1265613175-001	16	.1623320074-001
17	.1964389234-001	17	-.6409284759-002
18	.1094592888-002	18	-.2071970007-001
19	-.1883389360-001	19	-.8923293294-002
20	-.1578502990-001	20	.1375953130-001
30	-.1494673454-002	30	-.2241226812-001
31	-.1870384803-001	31	-.1284270942-001
40	-.2606336952-001	40	.4978797221-004
41	-.2182508230-001	41	.1538890151-001
50	.1882910737-001	50	-.4190000150-001
51	.1381865849-001	51	-.5199406389-001
60	.1339715305-003	60	-.2199701186+001
61	.6821076931-004	61	-.4105673109+001
70	.5341552371-007	70	-.3768476574+004
71	.2170135398-007	71	-.9019494907+004
80	.2925097307-011	80	-.5419583184+008
81	.1000688737-011	81	-.1552862215+009
90	.3333197496-016	90	-.3977400210+013
91	.9900233244-017	91	-.1318185287+014
99	.3828251339-021	99	-.3036620168+018
100	.1019012263-021	100	-.1125692891+019

IMAGINARY BESSEL

N	IMAGINARY BESSEL
0	.0000000000
1	.0000000000
2	.0000000000
3	.0000000000
4	.0000000000
5	.0000000000
6	.0000000000
7	.0000000000
8	.0000000000
9	.0000000000
10	.0000000000
11	.0000000000
12	.0000000000
13	.0000000000
14	.0000000000
15	.0000000000
16	.0000000000
17	.0000000000
18	.0000000000
19	.0000000000
20	.0000000000
30	.0000000000
31	.0000000000
40	.0000000000
41	.0000000000
50	.0000000000
51	.0000000000
60	.0000000000
61	.0000000000
70	.0000000000
71	.0000000000
80	.0000000000
81	.0000000000
90	.0000000000
91	.0000000000
99	.0000000000
100	.0000000000

REAL X = .5000000000+002		IMAGINARY X = -.1000000000-001		SECOND KIND	
N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5247720642-002	-.1940459664-003	0	-.1930029527-001	.4861578627-004
1	-.1940524890-001	.4471387622-004	1	.4861714558-002	.1949410809-003
2	.4083405218-002	.1964959359-003	2	.1959199579-001	-.3686098132-004
3	.1981358548-001	-.2498261532-004	3	-.2902514320-002	-.1982353390-003
4	-.1309502663-002	-.1994387215-004	4	-.1999834223-001	.9026764570-005
5	-.2004928877-001	-.1096349521-004	5	-.6971874622-003	.1991402163-003
6	-.3101340207-002	.1961445840-003	6	.1984495223-001	.3475340501-004
7	.1924203014-001	.6179981533-004	7	.5856873028-002	-.1890723938-003
8	.8874215311-002	-.1764500644-003	8	-.1808787905-001	-.9112370852-004
9	-.1622568506-001	-.1211893882-003	9	-.1200674546-001	.1568603585-003
10	-.1503996618-001	.1291649467-003	10	.1352530403-001	.1498181297-003
11	.9908888669-002	.1741753065-003	11	.1768736034-001	-.280062099-004
12	.1959803876-001	-.4813269117-004	12	-.5389110062-002	-.1908791766-003
13	-.1098648686-003	-.1962818474-003	13	-.2038189618-001	-.317787473-005
14	-.1965734459-001	-.5787136757-004	14	-.5617113091-002	.1869618797-003
15	-.1129138782-001	.1604362036-003	15	.1712394903-001	.1109641753-003
16	.1265666452-001	.1559416778-003	16	.1623394730-001	-.1160407242-003
17	.1964476549-001	-.5584402274-004	17	-.6409528919-002	-.1854081693-003
18	.1094676588-002	-.1922822237-004	18	-.2072059141-001	-.1464232308-004
19	-.1883467491-001	-.8628280668-004	19	-.8923705945-002	.1715062032-003
20	-.1578571097-001	.1220434280-003	20	.1376007430-001	.1470250582-003
30	-.1494684772-002	-.1780722988-003	30	-.2241297308-001	.6046539292-005
31	-.1870439119-001	-.1047589675-003	31	-.1284312515-001	.1419307444-003
40	-.2606381586-001	-.9743868097-005	40	.4975813058-004	.1534915851-003
41	-.2182543736-001	.7730345669-004	41	.1538911521-001	.1287695170-003
50	.1882909856-001	-.5010460064-004	50	-.4189993942-001	-.1009402956-003
51	.1381862540-001	-.4457708177-004	51	-.5199388148-001	-.121737324-003
60	.1339686075-003	-.9255452004-006	60	-.2199647221+001	-.1466017462-001
61	.6820911917-004	-.4938984458-006	61	-.4105562057+001	-.2891303098-001
70	.5341299116-007	-.5307960902-009	70	-.3768282926+004	-.3743558433+002
71	.2170026464-007	-.2216523182-009	71	-.9019005295+004	-.9219416603+002
80	.2924871830-011	-.3679377338-013	80	-.5419138077+008	-.6857291716+006
81	.1000608408-011	-.1285935151-013	81	-.1552749567+009	-.2004708611+007
90	.3332828204-016	-.5009554271-018	90	-.3976935546+013	-.6022289078+011
91	.9899100811-017	-.1511499107-018	91	-.1318026427+014	-.2027636442+012
99	.3827697892-021	-.6560619119-023	99	-.30366160271+018	-.5244148042+016
100	.1018860916-021	-.1769761636-023	100	-.11255517850+019	-.1970132408+017

REAL X = .5000000000+002		IMAGINARY X = -.1000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL		REAL BESSEL	
N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND	N	FIRST KIND
0	-.5269869051-002	0	-.1943689957-002	0	-.1939687128-001	0	-.1939687128-001	0	-.1939687128-001	0	-.1939687128-001	0	-.1939687128-001
1	-.1950219049-001	1	.4477465475-003	1	.4881913704-002	1	.4881913704-002	1	.4881913704-002	1	.4881913704-002	1	.4881913704-002
2	.4099688573-002	2	.1968214389-002	2	.1968955061-001	2	.1968955061-001	2	.1968955061-001	2	.1968955061-001	2	.1968955061-001
3	.1991176406-001	3	-.2501059615-003	3	-.2912892702-002	3	-.2912892702-002	3	-.2912892702-002	3	-.2912892702-002	3	-.2912892702-002
4	-.1311982726-002	4	-.1997653812-002	4	-.2009679798-001	4	-.2009679798-001	4	-.2009679798-001	4	-.2009679798-001	4	-.2009679798-001
5	-.2014720086-001	5	-.1099425983-003	5	-.7045489677-003	5	-.7045489677-003	5	-.7045489677-003	5	-.7045489677-003	5	-.7045489677-003
6	-.3120335359-002	6	.1964601804-002	6	.1994092019-001	6	.1994092019-001	6	.1994092019-001	6	.1994092019-001	6	.1994092019-001
7	.1933489532-001	7	.6191144563-003	7	.5888986404-002	7	.5888986404-002	7	.5888986404-002	7	.5888986404-002	7	.5888986404-002
8	.8920409286-002	8	-.1767267319-002	8	-.1817309511-001	8	-.1817309511-001	8	-.1817309511-001	8	-.1817309511-001	8	-.1817309511-001
9	-.1630076656-001	9	-.1213917087-002	9	-.1206719332-001	9	-.1206719332-001	9	-.1206719332-001	9	-.1206719332-001	9	-.1206719332-001
10	-.1511375323-001	10	.1293592138-002	10	.1358638602-001	10	.1358638602-001	10	.1358638602-001	10	.1358638602-001	10	.1358638602-001
11	.9951928980-002	11	.1744528110-002	11	.1777219210-001	11	.1777219210-001	11	.1777219210-001	11	.1777219210-001	11	.1777219210-001
12	.1969001729-001	12	-.4819566795-003	12	-.5410355352-002	12	-.5410355352-002	12	-.5410355352-002	12	-.5410355352-002	12	-.5410355352-002
13	-.1064777613-003	13	-.1965815548-002	13	-.2047544720-001	13	-.2047544720-001	13	-.2047544720-001	13	-.2047544720-001	13	-.2047544720-001
14	-.1974539198-001	14	-.5796944656-003	14	-.5646307410-002	14	-.5646307410-002	14	-.5646307410-002	14	-.5646307410-002	14	-.5646307410-002
15	-.1134513133-001	15	.1606689539-002	15	.1719843001-001	15	.1719843001-001	15	.1719843001-001	15	.1719843001-001	15	.1719843001-001
16	.1270944640-001	16	.1561770089-002	16	.1630791326-001	16	.1630791326-001	16	.1630791326-001	16	.1630791326-001	16	.1630791326-001
17	.1973127087-001	17	-.591490017-003	17	-.6433716450-002	17	-.6433716450-002	17	-.6433716450-002	17	-.6433716450-002	17	-.6433716450-002
18	.1103170772-002	18	-.1925549156-002	18	-.2080889726-001	18	-.2080889726-001	18	-.2080889726-001	18	-.2080889726-001	18	-.2080889726-001
19	-.1891207797-001	19	-.8641189878-003	19	-.8964588766-002	19	-.8964588766-002	19	-.8964588766-002	19	-.8964588766-002	19	-.8964588766-002
20	-.1585318456-001	20	.1222036318-002	20	.1381386683-001	20	.1381386683-001	20	.1381386683-001	20	.1381386683-001	20	.1381386683-001
30	-.1495806268-002	30	-.1782564213-002	30	-.2248280041-001	30	-.2248280041-001	30	-.2248280041-001	30	-.2248280041-001	30	-.2248280041-001
31	-.1875819130-001	31	-.1048653945-002	31	-.1288430204-001	31	-.1288430204-001	31	-.1288430204-001	31	-.1288430204-001	31	-.1288430204-001
40	-.2610801676-001	40	-.9743988434-004	40	.4680542757-004	40	.4680542757-004	40	.4680542757-004	40	.4680542757-004	40	.4680542757-004
41	-.2186059618-001	41	.7734829482-003	41	.1541027922-001	41	.1541027922-001	41	.1541027922-001	41	.1541027922-001	41	.1541027922-001
50	.1882822516-001	50	-.5011567316-003	50	-.4189379699-001	50	-.4189379699-001	50	-.4189379699-001	50	-.4189379699-001	50	-.4189379699-001
51	.1381534796-001	51	-.4458266210-003	51	-.5197582925-001	51	-.5197582925-001	51	-.5197582925-001	51	-.5197582925-001	51	-.5197582925-001
60	.1336792923-003	60	-.9250034543-005	60	-.2194307656+001	60	-.2194307656+001	60	-.2194307656+001	60	-.2194307656+001	60	-.2194307656+001
61	.6804579847-004	61	-.4935698169-005	61	-.409457479+001	61	-.409457479+001	61	-.409457479+001	61	-.409457479+001	61	-.409457479+001
70	.5316243410-007	70	-.5300338619-008	70	-.3749130784+004	70	-.3749130784+004	70	-.3749130784+004	70	-.3749130784+004	70	-.3749130784+004
71	.2159249610-007	71	-.2213137068-008	71	-.8970584082+004	71	-.8970584082+004	71	-.8970584082+004	71	-.8970584082+004	71	-.8970584082+004
80	.2902575359-011	80	-.3670511113-012	80	-.5375138910+008	80	-.5375138910+008	80	-.5375138910+008	80	-.5375138910+008	80	-.5375138910+008
81	.9926654850-012	81	-.1280707173-012	81	-.1539637919+009	81	-.1539637919+009	81	-.1539637919+009	81	-.1539637919+009	81	-.1539637919+009
90	.3296330367-016	90	-.4991959705-017	90	-.3931030138+013	90	-.3931030138+013	90	-.3931030138+013	90	-.3931030138+013	90	-.3931030138+013
91	.9787187603-017	91	-.1506012981-017	91	-.1302333212+014	91	-.1302333212+014	91	-.1302333212+014	91	-.1302333212+014	91	-.1302333212+014
99	.3773030320-021	99	-.6530338124-022	99	-.2990752444+018	99	-.2990752444+018	99	-.2990752444+018	99	-.2990752444+018	99	-.2990752444+018
100	.1003912386-021	100	-.1761364691-022	100	-.1108236375+019	100	-.1108236375+019	100	-.1108236375+019	100	-.1108236375+019	100	-.1108236375+019

REAL X = .500000000000+002		IMAGINARY X = -.500000000000+000	
N	FIRST KIND	IMAGINARY BESSEL	REAL BESSEL
0	.5816064493-C62	-.1011494599-001	-.2178758069-001
1	-.2190186756-001	.2313128495-002	.5379853186-002
2	.4500696099-C02	.1024058002-001	.2210423666-001
3	.2234165261-001	-.1284672643-002	-.3167746282-002
4	-.1371379124-002	-.1038914102-001	-.2253322441-001
5	-.2256977759-001	-.5876539902-003	-.8886445479-003
6	-.3592182751-002	.1021022152-001	.2231492997-001
7	.2160935954-001	.3232707406-002	.6685199374-002
8	.1006464524-001	-.9175684676-002	-.2028006110-001
9	-.1815652811-001	-.6317911881-002	-.1356355921-001
10	-.1693943038-001	.6706130310-002	.1509545165-001
11	.1101451580-001	.9063066488-002	.1987024778-001
12	.2196391510-001	-.2486874878-002	-.5933921801-002
13	-.2122321018-004	-.1019657100-001	-.2278729659-001
14	-.2192031851-001	-.3018837497-002	-.6369016612-002
15	-.1267378277-001	.8318695193-002	.1903735932-001
16	.1401178814-001	.8097343213-002	.1813522466-001
17	.2186720115-001	-.2882514489-002	-.7029656182-002
18	.1313897687-002	-.9961846497-002	-.2298818566-001
19	-.2082130377-001	-.4478792945-002	-.9974192425-002
20	-.1751795963-001	.6306347381-002	.1513987328-001
30	-.1523573787-002	-.9137762540-002	-.2419779624-001
31	-.2007909329-001	-.5373187742-002	-.1389483294-001
40	-.2718744719-001	-.4872027000-003	-.2378264960-004
41	-.2271773096-001	.3922111290-002	.1592813809-001
50	.188051937-001	-.2519207268-002	-.4174746075-001
51	.1373517303-001	-.2235881346-002	-.5154197631-001
60	.1267043985-003	-.4559485079-004	-.2066640670+001
61	.8411259680-004	-.2428124488-004	-.3832128682+001
70	.4718795916-007	-.2558595359-007	-.3296229052+004
71	.1902577607-007	-.1065916376-007	-.7826929387+004
80	.2377451288-011	-.1729520265-011	-.4348083010+008
81	.8058421388-012	-.6018881752-012	-.1234005328+009
90	.2449686017-016	-.2287884363-016	-.2875205554+013
91	.7191919200-017	-.6881777951-017	-.9419578067+013
99	.2521110300-021	-.2909981593-021	-.1961745737+018
100	.6621457867-022	-.7822840059-022	-.7172928423+018

IMAGINARY BESSEL		REAL BESSEL	
N	IMAGINARY BESSEL	REAL BESSEL	SECOND KIND
0	.2516570284-002	-.2178758069-001	-.5000000000+000
1	.1016091529-001	.5379853186-002	-.5000000000+000
2	-.1903748737-002	.2210423666-001	-.5000000000+000
3	-.1032916909-001	-.3167746282-002	-.5000000000+000
4	.4533752570-003	-.2253322441-001	-.5000000000+000
5	.1037021273-001	-.8886445479-003	-.5000000000+000
6	.1825888599-002	.2231492997-001	-.5000000000+000
7	-.9837516144-002	.6685199374-002	-.5000000000+000
8	-.4756794753-002	-.2028006110-001	-.5000000000+000
9	.8151422330-002	-.1356355921-001	-.5000000000+000
10	.7802489144-002	.1509545165-001	-.5000000000+000
11	-.4811310004-002	.1987024778-001	-.5000000000+000
12	-.9924076447-002	-.5933921801-002	-.5000000000+000
13	-.1798987083-003	-.2278729659-001	-.5000000000+000
14	.9703901761-002	-.6369016612-002	-.5000000000+000
15	.5770662357-002	.1903735932-001	-.5000000000+000
16	-.6008429019-002	.1813522466-001	-.5000000000+000
17	-.9616148478-002	-.7029656182-002	-.5000000000+000
18	-.7714045255-003	-.2298818566-001	-.5000000000+000
19	.8875270643-002	-.9974192425-002	-.5000000000+000
20	.7615632503-002	.1513987328-001	-.5000000000+000
30	.3055225073-003	-.2419779624-001	-.5000000000+000
31	.7273291939-002	-.1389483294-001	-.5000000000+000
40	.7784259540-002	-.2378264960-004	-.5000000000+000
41	.6516689824-002	.1592813809-001	-.5000000000+000
50	-.5006090150-002	-.4174746075-001	-.5000000000+000
51	-.6022500589-002	-.5154197631-001	-.5000000000+000
60	-.7154005494+000	-.2066640670+001	-.5000000000+000
61	-.1408075147+001	-.3832128682+001	-.5000000000+000
70	-.1786587954+004	-.3296229052+004	-.5000000000+000
71	-.4389128774+004	-.7826929387+004	-.5000000000+000
80	-.3187833782+008	-.4348083010+008	-.5000000000+000
81	-.9293163393+008	-.1234005328+009	-.5000000000+000
90	-.2716730724+013	-.2875205554+013	-.5000000000+000
91	-.9117519926+013	-.9419578067+013	-.5000000000+000
99	-.2294860758+018	-.1961745737+018	-.5000000000+000
100	-.8590587952+018	-.7172928423+018	-.5000000000+000

REAL X = .500000000+002	FIRST KIND	IMAGINARY BESSEL	IMAGINARY X = -.100000000+001	SECOND KIND	IMAGINARY BESSEL
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7640043168-002	-.2283339743-001	0	-.2989178642-001	.5569029057-002
1	.3003541047-001	.5109480667-002	1	.7040819717-002	.2293278155-001
2	.5033110168-002	.2310381609-001	2	.3028656035-001	-.4185166725-002
3	.3037229910-001	-.2788369285-002	3	-.4005007673-002	-.2329058198-001
4	-.1546895344-002	-.2340846350-001	4	-.3078184968-001	.9145794619-003
5	-.3076639816-001	-.1429036006-002	5	-.1536801033-002	.2334437011-001
6	-.5212719327-002	.2295889328-001	6	.3034121448-001	.4212369257-002
7	.292228858-001	.7368863587-002	7	.940046711-002	-.2209188078-001
8	.1395269573-001	-.2057342466-001	8	-.2738970370-001	-.1078990328-001
9	-.2441042515-001	-.1426619070-001	9	-.1863596193-001	.1824166377-001
10	-.2311656469-001	.1496899473-001	10	.2017228849-001	.1756838720-001
11	.1457955263-001	.2035655316-001	11	.2695742006-001	-.1069651198-001
12	.2963332567-001	-.5474645159-002	12	-.7678464880-002	-.2223890624-001
13	.2658944668-003	-.2279656648-001	13	-.3057281728-001	-.4952490855-003
14	-.2923264349-001	-.6827493195-002	14	-.8818908809-002	.2164152426-001
15	-.1715496808-001	.1849923715-001	15	.2520895403-001	.1294005589-001
16	.1837182224-001	.1807979771-001	16	.2428181845-001	-.1330943142-001
17	.2903696455-001	-.6328930737-002	17	-.9013747440-002	-.2140037650-001
18	.2034495453-002	-.2210192287-001	18	-.3028943334-001	-.1790984429-002
19	-.2720506222-001	-.9989854138-002	19	-.1336497517-001	.196274737-001
20	-.2309017999-001	.1388872295-001	20	.1956285475-001	.1688588224-001
30	-.1618082141-002	-.1972572117-001	30	-.2983800484-001	.6326645224-003
31	-.5441762595-001	.1158131716-001	31	-.1720783549-001	.1564132008-001
40	-.3065961548-001	-.9708136944-003	40	-.2314579805-003	.1623903353-001
41	-.2545413162-001	.8194780349-002	41	.1760681300-001	.1350877982-001
50	.1872704064-001	-.9122363792-002	50	-.4132159502-001	-.9768480434-002
51	.1347564052-001	-.4513541390-002	51	-.5023220472-001	-.1166359597-001
60	.1053877796-003	-.8712727266-004	60	-.1689090989-001	-.1328959136-001
61	.5214320992-004	-.4610678856-004	61	-.3059134541-001	-.2599342088-001
70	.2972560070-007	-.4564833141-007	70	-.2015747829-004	-.3093451991-004
71	.1155955637-007	-.1687317075-007	71	-.4609653012-004	-.7539815864-004
80	.919497091-012	-.2839982210-011	80	-.1597348603-008	-.5062030262-008
81	.2899990848-012	-.9792862217-012	81	-.4202640859-008	-.1461575680-009
90	.2315519191-017	-.3397864379-016	90	-.2210365250-012	-.3884971011-013
91	.497420299-018	-.1010722423-016	91	-.4223366789-012	-.1288772922-014
99	-.5572880277-022	-.3876916617-021	99	.4610067768-017	-.2931033356-018
100	-.1726557041-022	-.1028441140-021	100	.1960091036-018	-.1082133551-019

REAL X = .5000000000+002		IMAGINARY X = -.3000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.4108184146-001	-.1958030901+000	0	-.1967448808+000	.4076407652-001
1	-.1973294495+000	.3681294050-001	1	.3711231724-001	.1963802002+000
2	.2915249355-001	.1972961057+000	2	.1982591996+000	-.2889040538-001
3	.1990547113+000	.1697981432-001	3	-.1718479393-001	-.1980735894+000
4	-.1242678865-002	-.1979986008+000	4	-.1989985908+000	.1115739399-002
5	-.1971468758+000	-.1854547990-001	5	-.1851847065-001	.1961322266+000
6	-.4173013137-001	.1913403166+000	6	.1923594826+000	.4163500396-001
7	.1833617592+000	.6746685523-001	7	.6770535728-001	-.1823559123+000
8	.9533129154-001	-.1678841905+000	8	-.1668501028+000	-.9493121487-001
9	-.1476528347+000	-.1224049445+000	9	-.1229788110+000	.1467628921+000
10	-.1484572824+000	.1181827521+000	10	.1189515953+000	.1477072034+000
11	.8255691601-001	.1681359453+000	11	.1690504018+000	-.8196157119-001
12	.1816733339+000	-.3884725418-001	12	-.3921332888-001	-.1806252302+000
13	.915149131-002	-.1820592484+000	13	-.1831874161+000	-.9199264752-002
14	-.1708912492+000	-.5881781491-001	14	-.5905604987-001	.1697614645+000
15	-.1058370150+000	.1421416038+000	15	.1431712663+000	.1052599452+000
16	.1002389804+000	.1427064732+000	16	.1436021989+000	-.9942752953-001
17	.1601265235+000	-.4433796105-001	17	-.4448105835-001	-.1649804737+000
18	.1748796340-001	-.1666794293+000	18	-.1679527653+000	-.1751983603-001
19	-.1458578312+000	-.7778869507-001	19	-.7825355137-001	.1446319469+000
20	-.1272215200+000	.9942023371-001	20	.1003894481+000	.1262789556+000
30	-.3950553290-002	-.119602726+000	30	-.1219925107+000	.3568644580-002
31	-.9482338303-001	-.6871367002-001	31	-.6971833534-001	.9287929412-001
40	-.7812227425-001	-.1548395588-002	40	-.8285916597-003	.7385822573-001
41	-.8067058632-001	.3854804792-001	41	.4215961215-001	.5744375428-001
50	.1681140670-001	-.1804884567-001	50	-.3942692150-001	-.2195240297-001
51	.9819372465-002	-.1474719606-001	51	-.4001888999-001	-.2403566302-001
60	-.7731622744-001	-.1411885203-003	60	.7497575620+000	-.1623150695+001
61	.4619691118-001	-.6749786531-004	61	.1737798772+001	-.2872340008+001
70	-.6285597320-007	.1041166076-007	70	.3093974085+004	-.5140825810+003
71	-.2580580418-007	-.2103319759-008	71	.7485282100+004	-.5892305261+003
80	-.2842988041-011	.2059788301-011	80	.3580949616+008	.2718560551+008
81	.9175663374-012	.7767124268-012	81	.9623963204+008	.8548184413+008
90	-.8413225888-017	.3956393406-016	90	.5717208250+012	.3216454767+013
91	-.1657120171-017	.1191435823-016	91	.1120169381+013	.1075603240+014
99	.1926495974-021	.4288454830-021	99	-.1098860595+018	.2207365611+018
100	.5910428412-022	.1105020168-021	100	-.4625433738+018	.7869584284+018

REAL X =	5000000000+002	IMAGINARY X =	-1000000000+002	SECOND KIND	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL	IMAGINARY BESSEL
	FIRST KIND								
N	0	0	0	0	0	0	0	0	0
1	.1469454344+002	-.2154868204+003	-.2154868212+003	-.2154868212+003	.1049404825+002	1	.1049404863+002	.2136121623+003	.1469454304+002
2	.2173038273+001	.1049406132+003	.2136121631+003	.1049404863+002	.2136121631+003	2	.2136121631+003	.1008737163+002	.2173037918+001
3	.2110416329+003	.1008737194+002	.1008737163+002	.1008737163+002	.2065723567+003	3	.1008737163+002	.4494149712+002	.2110416321+003
4	.2596482922+002	-.4494149729+002	-.2065723567+003	-.2065723576+003	.1886294688+003	4	-.2065723576+003	.1886294697+003	.2596482947+002
5	.1993971386+003	.1886294688+003	.1886294688+003	.1886294697+003	.8878668337+002	5	.1886294697+003	.8878668345+002	.1993971377+003
6	.6624362212+002	.8878668337+002	.8878668337+002	.8878668345+002	.1530138047+003	6	.8878668337+002	.1530138057+003	.6624362218+002
7	.1734047596+003	.1530138047+003	.1530138047+003	.1530138057+003	.1315434561+003	7	.1530138047+003	.1315434561+003	.1734047587+003
8	.1111419172+003	.1315434561+003	.1315434561+003	.1315434561+003	.9566432024+002	8	.1315434561+003	.9566432024+002	.1111419170+003
9	.1270651533+003	.9566432024+002	.9566432024+002	.9566432024+002	.1582267680+003	9	.9566432024+002	.1582267680+003	.1270651523+003
10	.1479567784+003	.1582267680+003	.1582267680+003	.1582267680+003	.2040827715+002	10	.1582267680+003	.2040827715+002	.1479567778+003
11	.5958664395+002	.2040827715+002	.2040827715+002	.2040827715+002	.5681868721+002	11	.2040827715+002	.5681868721+002	.5958664315+002
12	.1603154261+003	.5681868721+002	.5681868721+002	.5681868721+002	.1059490825+003	12	.5681868721+002	.1059490825+003	.1603154250+003
13	.1945041439+002	.1059490825+003	.1059490825+003	.1059490825+003	.1094825768+003	13	.1059490825+003	.1094825768+003	.1945041475+002
14	.1343668095+003	.1094825768+003	.1094825768+003	.1094825768+003	.2768108161+002	14	.1094825768+003	.2768108161+002	.1343668082+003
15	.8804828152+002	.2768108161+002	.2768108161+002	.2768108161+002	.1122165636+003	15	.1094825768+003	.1122165636+003	.8804828111+002
16	.6924499725+002	.1122165636+003	.1122165636+003	.1122165636+003	.5017731650+002	16	.2768108161+002	.5017731650+002	.6924499595+002
17	.1180957855+003	.5017731650+002	.5017731650+002	.5017731650+002	.6075560260+002	17	.1122165636+003	.6075560260+002	.1180957842+003
18	.1396975014+002	.6075560260+002	.6075560260+002	.6075560260+002	.3207814304+002	18	.5017731650+002	.3207814304+002	.1396975068+002
19	.9218649079+002	.3207814304+002	.3207814304+002	.3207814304+002	.1059595139+002	19	.6075560260+002	.1059595139+002	.9218648882+002
20	.7558302076+002	.1059595139+002	.1059595139+002	.1059595139+002	.3503497076+001	20	.3207814304+002	.3503497076+001	.7558301980+002
30	.2685475576+002	.3503497076+001	.3503497076+001	.3503497076+001	.4410733769+001	30	.1059595139+002	.4410733769+001	.2685474765+002
31	.4503116987+001	.4410733769+001	.4410733769+001	.4410733769+001	.5346615762+002	31	.3503497076+001	.5346615762+002	.4503104843+001
40	.1009755184+001	.5346615762+002	.5346615762+002	.5346615762+002	.7164944099+001	40	.4410733769+001	.7164944099+001	.1009782828+001
41	.2528114114+000	.7164944099+001	.7164944099+001	.7164944099+001	.5425881190+003	41	.5346615762+002	.5425881190+003	.2522393732+000
50	.1467445061+000	.5425881190+003	.5425881190+003	.5425881190+003	.384204414+003	50	.7164944099+001	.384204414+003	.1467319588+000
51	.8122501223+003	.384204414+003	.384204414+003	.384204414+003	.1346924659+006	51	.5425881190+003	.1346924659+006	.8122501223+003
60	.3016420471+003	.1346924659+006	.1346924659+006	.1346924659+006	.9005624971+007	60	.384204414+003	.9005624971+007	.3016420471+003
61	.3408778766+006	.9005624971+007	.9005624971+007	.9005624971+007	.3688623245+011	61	.1346924659+006	.3688623245+011	.3408778766+006
70	.1192138332+006	.3688623245+011	.3688623245+011	.3688623245+011	.5639035449+012	70	.9005624971+007	.5639035449+012	.1192138332+006
71	.2121599668+010	.5639035449+012	.5639035449+012	.5639035449+012	.2165756224+015	71	.3688623245+011	.2165756224+015	.2121599668+010
80	.7422745766+011	.2165756224+015	.2165756224+015	.2165756224+015	.5134359592+016	80	.5639035449+012	.5134359592+016	.7422745766+011
81	.1723985773+015	.5134359592+016	.5134359592+016	.5134359592+016	.3349764129+020	81	.2165756224+015	.3349764129+020	.1723985773+015
90	.6565708993+016	.3349764129+020	.3349764129+020	.3349764129+020	.9656273517+021	90	.5134359592+016	.9656273517+021	.6565708993+016
91	.1372495197+020	.9656273517+021	.9656273517+021	.9656273517+021		91	.3349764129+020		.1372495197+020
99	.1575780151+021					99	.9656273517+021		.1575780151+021
100						100			

REAL X = .5000000000+002		IMAGINARY X = -.1000000000+003			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9965178206+041	-.8009060812+041	0	-.8009060812+041	-.6965178206+041
1	-.7909127613+041	-.8925493024+041	1	-.8925493024+041	.7909127613+041
2	-.8845875905+041	.7712135833+041	2	.7712135833+041	.8845875905+041
3	.7423724661+041	.8725900704+041	3	.8725900704+041	-.7423724661+041
4	.8565089756+041	-.7052082032+041	4	-.7052082032+041	-.8565089756+041
5	-.6607631524+041	-.8363089195+041	5	-.8363089195+041	.6607631524+041
6	-.8119873694+041	.6102634534+041	6	.6102634534+041	.8119873694+041
7	.5580724100+041	.7835959327+041	7	.7835959327+041	-.5580724100+041
8	.7512602021+041	-.4966390082+041	8	-.4966390082+041	-.7512602021+041
9	-.4364438112+041	-.7151959977+041	9	-.7151959977+041	.4364438112+041
10	-.6757201401+041	.3759446531+041	10	.3759446531+041	.6757201401+041
11	.3165246177+041	.6332543651+041	11	.6332543651+041	-.3165246177+041
12	.5883216017+041	-.2594447218+041	12	-.2594447218+041	-.5883216017+041
13	-.2058035131+041	-.5415345169+041	13	-.5415345169+041	.2058035131+041
14	-.4635769255+041	.1565054352+041	14	.1565054352+041	.4635769255+041
15	.1122393288+041	.4451793007+041	15	.4451793007+041	-.1122393288+041
16	.3970901357+041	-.7346784835+040	16	-.7346784835+040	-.3970901357+041
17	-.4042791895+040	-.3500452608+041	17	-.3500452608+041	.4042791895+040
18	-.3047373713+041	.1314169453+040	18	.1314169453+040	.3047373713+041
19	-.8563153591+039	.2617879697+041	19	.2617879697+041	.8563153591+039
20	.2217236728+041	.2502552482+040	20	.2502552482+040	-.2217236728+041
30	.1260417930+040	-.2605991296+040	30	-.2605991296+040	.1260417930+040
31	-.2137720757+040	.7297966736+039	31	.7297966736+039	-.2137720757+040
40	-.135713347+039	.1016349208+039	40	.1016349208+039	.135713347+039
41	.5702673150+038	.1081113136+039	41	.1081113136+039	-.5702673150+038
50	.2112703862+037	.3988939954+037	50	.3988939954+037	-.2112703862+037
51	.287711659+037	-.8784725392+036	51	-.8784725392+036	-.287711659+037
60	.5516537769+035	-.5373132145+033	60	-.5373132145+033	-.5516537769+035
61	.7144093005+034	-.3328665529+035	61	-.3328665529+035	.7144093005+034
70	.2160462610+033	-.2275115448+033	70	-.2275115448+033	.2160462610+033
71	-.956966343+032	-.1518650330+033	71	-.1518650330+033	-.956966343+032
80	.1847796615+030	-.6241042350+030	80	-.6241042350+030	.1847796615+030
81	-.3951628233+030	-.2128659938+030	81	-.2128659938+030	-.3951628233+030
90	-.9396312027+026	-.1094065641+027	90	-.1094065641+027	-.9396312027+026
91	-.5314024167+027	-.1130219155+028	91	-.1130219155+028	-.5314024167+027
99	.1332146855+025	-.7272267634+024	99	-.7272267634+024	.1332146855+025
100	-.1313259352+024	-.6931765137+024	100	-.6931765137+024	-.1313259352+024

REAL X = .100000000000000000		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.5063656411-002	0	.0000000000	0	-.8623188723-002	0	.0000000000	0	-.8623188723-002	0	.0000000000
1	.8673825267-002	1	.0000000000	1	.4977424524-002	1	.0000000000	1	.4977424524-002	1	.0000000000
2	.4803441652-002	2	.0000000000	2	.8772511459-002	2	.0000000000	2	.8772511459-002	2	.0000000000
3	.8913997376 002	3	.0000000000	3	-.4538796951-002	3	.0000000000	3	-.4538796951-002	3	.0000000000
4	-.4179461837-002	4	.0000000000	4	-.9090227385-002	4	.0000000000	4	-.9090227385-002	4	.0000000000
5	-.9290148935-002	5	.0000000000	5	.3720678486-002	5	.0000000000	5	.3720678486-002	5	.0000000000
6	.3157545454-002	6	.0000000000	6	.9499502019-002	6	.0000000000	6	.9499502019-002	6	.0000000000
7	.9700629844-002	7	.0000000000	7	-.2485743224-002	7	.0000000000	7	-.2485743224-002	7	.0000000000
8	-.1702450977-002	8	.0000000000	8	-.9872363502-002	8	.0000000000	8	-.9872363502-002	8	.0000000000
9	-.9990046510-002	9	.0000000000	9	.8074414285-003	9	.0000000000	9	.8074414285-003	9	.0000000000
10	-.1956578597-003	10	.0000000000	10	.1002577737-001	10	.0000000000	10	.1002577737-001	10	.0000000000
11	.9948948354-002	11	.0000000000	11	.1297971620-002	11	.0000000000	11	.1297971620-002	11	.0000000000
12	.2483919282-002	12	.0000000000	12	-.9727243855-002	12	.0000000000	12	-.9727243855-002	12	.0000000000
13	-.9327478789-002	13	.0000000000	13	-.3729782784-002	13	.0000000000	13	-.3729782784-002	13	.0000000000
14	-.5002472555-002	14	.0000000000	14	.8720202503-002	14	.0000000000	14	.8720202503-002	14	.0000000000
15	.7877261748-002	15	.0000000000	15	.6258641510-002	15	.0000000000	15	.6258641510-002	15	.0000000000
16	.7444423697-002	16	.0000000000	16	-.6780023635-002	16	.0000000000	16	-.6780023635-002	16	.0000000000
17	-.5420601928-002	17	.0000000000	17	-.8496049309-002	17	.0000000000	17	-.8496049309-002	17	.0000000000
18	-.9341634372-002	18	.0000000000	18	.3806406377-002	18	.0000000000	18	.3806406377-002	18	.0000000000
19	.1964197210-002	19	.0000000000	19	.9904419669-002	19	.0000000000	19	.9904419669-002	19	.0000000000
20	.1010767128-001	20	.0000000000	20	.5631729379-004	20	.0000000000	20	.5631729379-004	20	.0000000000
30	.8700628514-002	30	.0000000000	30	-.5412929349-002	30	.0000000000	30	-.5412929349-002	30	.0000000000
31	-.2453480806-002	31	.0000000000	31	-.9967036473-002	31	.0000000000	31	-.9967036473-002	31	.0000000000
40	.1043410851-001	40	.0000000000	40	-.7048420407-003	40	.0000000000	40	-.7048420407-003	40	.0000000000
41	.3643741796-002	41	.0000000000	41	-.9830093513-002	41	.0000000000	41	-.9830093513-002	41	.0000000000
50	.5797140882-003	50	.0000000000	50	.1074782297-001	50	.0000000000	50	.1074782297-001	50	.0000000000
51	.9573865262-002	51	.0000000000	51	.4999376527-002	51	.0000000000	51	.4999376527-002	51	.0000000000
60	-.4876469107-002	60	.0000000000	60	-.1008947352-001	60	.0000000000	60	-.1008947352-001	60	.0000000000
61	-.1102316808-001	61	.0000000000	61	-.2300427244-002	61	.0000000000	61	-.2300427244-002	61	.0000000000
70	-.4767399015-002	70	.0000000000	70	.1087351322-001	70	.0000000000	70	.1087351322-001	70	.0000000000
71	.430547 794-002	71	.0000000000	71	.1115583327-001	71	.0000000000	71	.1115583327-001	71	.0000000000
80	.2618665954-002	80	.0000000000	80	.1169783399-001	80	.0000000000	80	.1169783399-001	80	.0000000000
81	.1154782681-001	81	.0000000000	81	.6246510169-002	81	.0000000000	81	.6246510169-002	81	.0000000000
90	-.5861846019-002	90	.0000000000	90	.1410253654-001	90	.0000000000	90	.1410253654-001	90	.0000000000
91	.585771593-003	91	.0000000000	91	.1565068008-001	91	.0000000000	91	.1565068008-001	91	.0000000000
99	.1327658222-001	99	.0000000000	99	-.1885459438-001	99	.0000000000	99	-.1885459438-001	99	.0000000000
100	.1088047701-001	100	.0000000000	100	-.2298385049-001	100	.0000000000	100	-.2298385049-001	100	.0000000000

REAL X = .1000000000+003		IMAGINARY X = -.1000000000-002		SECOND KIND	
N	FIRST BESSEL REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.5063658856-002	.8673826749-005	0	-.8623193084-002	.4977425324-005
1	-.8673829672-002	.4890180691-005	1	.4977426925-002	.8722738683-005
2	.4803443965-002	.8817930020-005	2	.8772515889-002	-.4714249936-005
3	.8914001866-002	-.4446882468-005	3	-.8538801128-002	-.8954064921-005
4	-.4179463831-002	.9122971092-005	4	-.9090231962-002	.4084288230-005
5	-.9290153602-002	.3622053471-005	5	.3720880248-002	.9313469653-005
6	.3157546931-002	.9511178705-005	6	.9499508779-002	-.3055713820-005
7	.9700634691-002	-.2381495429-005	7	-.2485744333-002	-.9698363091-005
8	-.1702451724-002	.9853852067-005	8	-.9872368419-002	.1597230740-005
9	-.9990051467-002	.7034464096-006	9	.6074417290-003	.9953109291-005
10	-.195680562-003	.9968525787-005	10	.1002578233-001	.2953941640-006
11	.9448963254-002	.1389533124-005	11	.1297972559-002	.9870022373-005
12	.2483919501-002	-.9626050553-005	12	-.9727248617-002	-.2562513973-005
13	-.9327983330-002	-.3789835963-005	13	-.3729784707-002	.9295075759-005
14	-.5002475090-002	.8577609288-005	14	.8720206722-002	.5037814009-005
15	.7877265529-002	.6262835478-005	15	.6258644641-002	-.7718821097-005
16	.7444273684-002	-.6611710767-005	16	-.6760026859-002	-.7411246750-005
17	-.5420604471-002	-.8420133421-005	17	-.8496053480-002	.5250735581-005
18	-.9341638919-002	.3645691955-005	18	.3806408123-002	.9219268016-005
19	.1964198058-002	.9734475380-005	19	.9904424451-002	-.1825522705-005
20	.1010767612-001	.1584138156-006	20	.5631741969-004	-.9892594616-005
30	.8780632511-002	-.5063670102-005	30	-.5412931720-002	-.8343158943-005
31	-.2453481816-002	.9485743802-005	31	-.9967040984-002	.2223477985-005
40	.1043411288-001	-.5299016693-006	40	-.7048422398-003	-.9548158027-005
41	.3643743383-002	-.8903738182-005	41	-.9830097547-002	.3423797728-005
50	.5797142113-003	.9284009370-005	50	.1074782698-001	-.3745349891-006
51	.9573868735-002	.4398696401-005	51	.4999378445-002	-.8148148169-005
60	.4876470572-002	-.8097287473-005	60	-.1008947675-001	.3753257253-005
61	-.1102317144-001	.1957895313-005	61	-.2300428046-002	.8663209520-005
70	.4767400290-002	.7642659744-005	70	.1087351592-001	.3544374313-005
80	.4305480767-002	.7867345106-005	80	.1115583602-001	-.2841313498-005
90	.5616666872-002	.7054494457-005	90	.1169783608-001	-.3111757217-005
91	.1154782871-001	.3852552235-005	91	.6246511283-002	-.6575696025-005
99	.58618486608-002	.5861238765-005	99	.1410253779-001	.2958397249-005
100	.5855771430-003	.6400577177-005	100	.1565068135-001	.2960891022-006
	.13276558231-001	-.2263339430-005		-.1885459443-001	-.4317802001-005
	.1088047698-001	-.2287300068-005		-.2298385033-001	-.4359094531-005

REAL X = .1000000000+003		IMAGINARY X = -.1000000000-001	
N	FIRST KIND REAL BESSEL	N	SECOND KIND IMAGINARY BESSEL
0	-.5063900922-002	0	-.8673971453-004
1	-.8674263785-002	1	.4890258453-004
2	.4803672864-002	2	.8818076926-004
3	.8914444985-002	3	-.4446952775-004
4	-.4179661270-002	4	-.9123123504-004
5	-.9290615675-002	5	.3622109973-004
6	.3157693158-002	6	.9499978059-002
7	.9701114545-002	7	-.2485857118-002
8	-.1702525634-002	8	-.9872855168-002
9	-.9990542224-002	9	.8074714843-003
10	.1956775038-003	10	.1002627286-001
11	.9949447856-002	11	.1296045733-002
12	.2484050168-002	12	-.9727720071-002
13	-.9328432913-002	13	-.3729975086-002
14	-.5002726006-002	14	.8720624323-002
15	.7877639898-002	15	.6258954653-002
16	.7444792409-002	16	-.6780346007-002
17	-.5420856246-002	17	-.8496466367-002
18	.9342089129-002	18	.3805580971-002
19	.1964281954-002	19	.9904897901-002
20	.1010815529-001	20	.5632988415-064
30	.8701028155-002	30	-.5413166484-002
31	.2453581825-002	31	-.9967487615-002
40	.1043454519-001	40	-.7048619550-003
41	.3643901505-002	41	-.9830496959-002
50	.5797263986-003	50	.1074822371-001
51	.9574212609-002	51	.4999568353-002
60	-.4876615594-002	60	-.1008979711-001
61	-.1102350883-001	61	-.2300507428-002
70	-.4767526558-002	70	.1087378315-001
71	.4305577153-002	71	.1115610876-001
80	.5616757753-002	80	.1169804298-001
81	.1154801685-001	81	.6246621624-002
90	-.5861904930-002	90	.1410266121-001
91	.5855755254-003	91	.1565080718-001
99	.1327659112-001	99	-.1885459949-001
100	.1089947386-001	100	-.2298383464-001
			-.4359086033-004
			-.4977504557-004
			.8722884135-004
			-.4714324736-004
			-.8954213892-004
			.4084352459-004
			.9313623994-004
			-.3055760389-004
			-.9698522934-004
			.1597253678-004
			.9953272203-004
			.2954022172-005
			-.9876182565-004
			-.2562558679-004
			.9205223602-004
			.5037698094-004
			-.7718943359-004
			-.7411367752-004
			.5250816883-004
			.9219416011-004
			-.1825548644-004
			-.9892750874-004
			-.8343285175-004
			.2223508374-004
			-.9548289797-004
			-.3423846586-004
			-.3745378514-005
			-.8148246104-004
			.3753295586-004
			.8663298131-004
			.3544403716-004
			-.2841336468-004
			-.3111776402-004
			-.6575733071-004
			.2959403086-004
			.2960864115-005
			-.4317796573-004

REAL X =	FIRST KIND	IMAGINARY X =	SECOND KIND	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.5088126954-002	-.8688449161-003	-.8666839152-002	0	0	.4985431668-003	
1	.8717711682-002	.4898038451-003	.5001453664-002	1	1	.8737436745-003	
2	.4826581171-002	.832774857-003	.6816856399-002	2	2	.4721808393-003	
3	.8958996335-002	-.4453986261-003	-.4560587675-002	3	3	-.8969118505-003	
4	-.4199420877-002	-.9138282334-003	-.9136034433-002	4	4	.4090778317-003	
5	-.9336861592-002	.3627762799-003	.3738308582-002	5	5	.9329065762-003	
6	.3172327223-002	.9527065306-003	.9547145347-002	6	6	-.3060469974-003	
7	.9749139867-002	-.2385121526-003	-.2497141142-002	7	7	-.9714515185-003	
8	-.1709921929-002	-.9870209482-003	-.9921570426-002	8	8	.1599548446-003	
9	-.1003965851-001	.7042807279-004	.8104486637-003	9	9	.9969571496-003	
10	-.1976246619-003	.9984947354-003	.1007536610-001	10	10	.2962080952-004	
11	.9997947689-002	.1392141108-003	.1305369880-002	11	11	-.9886209610-003	
12	.2497118312-002	-.9641759963-003	-.9774903941-002	12	12	-.2567031684-003	
13	-.9373427692-002	-.3796335899-003	-.3749029246-002	13	13	.9220015096-003	
14	-.5027838757-002	.8591442266-003	.8762418117-002	14	14	.5046310902-003	
15	.7915106759-002	.6273270689-003	.6289981616-002	15	15	-.7731175410-003	
16	.7481324927-002	-.6622193228-003	-.6812286100-002	16	16	-.7423473959-003	
17	-.5446053470-002	-.8433904121-003	-.8537728807-002	17	17	.5258950932-003	
18	-.9387146549-002	.3661268570-003	.3823878942-002	18	18	.9234222713-003	
19	.1972677623-002	.9750139733-003	.9952280935-002	19	19	-.1828143607-003	
20	.1015610980-001	.1589755588-004	.5757803816-004	20	20	-.9908384150-003	
30	.8740622728-002	-.5071086076-003	-.5436660081-002	30	30	-.8355914098-003	
31	-.2463589734-002	-.9500046161-003	-.1001218453-001	31	31	.2226548607-003	
40	.1047780651-001	-.5304058552-004	-.7068344476-003	40	40	-.9561472266-003	
41	.3659724978-002	-.8915937649-003	-.9870465571-002	41	41	-.3428734414-003	
50	.5809457051-003	.9295540340-003	.1078792094-001	50	50	-.3748241960-004	
51	.960820960-002	.4404230274-003	.5018570931-002	51	51	-.8158043178-003	
60	-.4891125590-002	-.8105880916-003	-.1012184954-001	60	60	.3757130200-003	
61	-.1105726100-001	.1960012284-003	-.2308449649-002	61	61	.8672162053-003	
70	-.4780158324-002	.7649059260-003	.1090051714-001	70	70	.5547344673-003	
71	.4315219971-002	.7873744183-003	.1183393336-001	71	71	-.2843634143-003	
80	.5625849094-002	.7058570891-003	.1171873926-001	80	80	-.3113695349-003	
81	.1156683602-001	.3854576155-003	.6257658214-002	81	81	-.6579438349-003	
90	-.5867737306-002	.5863125742-003	.1411500578-001	90	90	.2958986732-003	
91	.5854145480-003	.6402294283-003	.1566339193-001	91	91	.2958172242-004	
99	.1327747207-001	-.2263808559-003	-.1885510612-001	99	99	-.4317253787-003	
100	.1088016138-001	-.2287629962-003	-.2298226624-001	100	100	-.4358236187-003	

REAL X = .1000000000+000		IMAGINARY X = -.5000000000+000		IMAGINARY BESSEL		IMAGINARY BESSEL	
FIRST KIND		SECOND KIND		REAL BESSEL		IMAGINARY BESSEL	
N	REAL BESSEL	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	-.5667300750-002	0	-.9736681328-002	0	.4521939666-002	0	.2589964178-002
1	-.5793326822-002	1	.5589806876-002	1	.2544461554-002	1	.4547351838-002
2	.5393126630-002	2	.9903689256-002	2	.4596802642-002	2	-.2452708583-002
3	.1006182724-001	3	-.5094021630-002	3	-.2313278920-002	3	-.4667508341-002
4	-.4688006704-002	4	-.1025862827-001	4	.4755206566-002	4	.2124208304-002
5	-.1048159751-001	5	.4169812298-002	5	.1883211477-002	5	.4854066042-002
6	.3534024061-002	6	.1071462649-001	6	.4956589916-002	6	-.1587981048-002
7	.1093778745-001	7	-.2775913514-002	7	-.1236573838-002	7	-.5053534084-002
8	-.1892469555-002	8	-.1112721305-001	8	-.5133868219-002	8	.8278880030-003
9	-.1125513555-001	9	.8836308986-003	9	.3622295008-003	9	.5184813631-002
10	-.2462968503-003	10	.1129017327-001	10	.5191997992-002	10	.1580413881-003
11	.1119796304-001	11	.1487080277-002	11	.7278042150-003	11	-.5139771384-002
12	.2820927009-002	12	-.1094224277-001	12	-.5011729872-002	12	-.1338449154-002
13	-.1048646441-001	13	-.4220899562-002	13	-.1977179290-002	13	.4791489999-002
14	-.5649537894-002	14	.9796160027-002	14	.4463748409-002	14	.2626421040-002
15	.8841687109-002	15	.7057906734-002	15	.3263442342-002	15	-.4015642862-002
16	.8385334167-002	16	-.7602039546-002	16	-.3438402302-002	16	-.3860299725-002
17	-.6068922790-002	17	-.9560147734-002	17	-.44384251280-002	17	.2729232748-002
18	-.1050173179-001	18	.4251295450-002	18	.1893332366-002	18	.4798777466-002
19	.2179876587-002	19	.112421021-001	19	.5065339024-002	19	-.9458647728-003
20	.1134198525-001	20	.8888246369-004	20	.8635112107-004	20	-.5145963838-002
30	.9718921167-002	30	-.6016723417-002	30	-.2625531789-002	30	-.4332792285-002
31	-.2710446640-002	31	-.1111627478-001	31	-.4923615798-002	31	.1150514798-002
40	.1154494440-001	40	-.7552454559-003	40	-.2713022093-003	40	-.4942200404-002
41	.4050192078-002	41	-.1085611827-001	41	-.4605893367-002	41	-.1774241525-002
50	.6108571478-003	50	.1176529140-001	50	.4787449622-002	50	-.1909163244-003
51	.1045554850-001	51	.5486407764-002	51	.2269138518-002	51	-.4198870033-002
60	-.5247590997-002	60	-.1090916532-001	60	-.4156886122-002	60	.1925430337-002
61	-.1188615296-001	61	-.2503431881-002	61	-.1005592973-002	61	.4444365190-002
70	-.5089413320-002	70	.1155552089-001	70	.3901830015-002	70	.1809518827-002
71	.45515A9015-002	71	.1185152343-001	71	.4014130649-002	71	-.1449867845-002
80	.5848207105-002	80	.1222401755-001	80	.3578410918-002	80	-.1580244585-002
81	.1202646177-001	81	.6526764446-002	81	.1951674545-002	81	-.3334841259-002
90	-.6009242652-002	90	.1441563797-001	90	.2954276390-002	90	.1486557000-002
91	.5819858199-003	91	.1596956256-001	91	.3221800048-002	91	.1446094762-003
99	.1329864204-001	99	-.1886786176-001	99	-.1137538991-002	99	-.2152048328-002
100	.1087238285-001	100	-.2294475228-001	100	-.1147769194-002	100	-.2168826195-002

REAL X = .1000000000+003		IMAGINARY X = -.1000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7711519181-002	-.1021109687-001	0	-.1336444723-001	.5817170586-002
1	-.1344053371-001	.5714298753-002	1	.7577306412-002	.1026792645-001
2	.7306629369-002	.1037847694-001	2	.1358866363-001	-.5506690629-002
3	.1380063993-001	-.5191773844-002	3	-.6895187998-002	-.1053644980-001
4	-.6337047290-002	-.1073220528-001	4	-.1406390375-001	.47644586742-002
5	-.1436125914-001	.4220269176-002	5	.5625275523-002	.10952556348-001
6	.4752824911-002	.118059267-001	6	.1467057557-001	-.3553738041-002
7	.1496453128-001	-.2760759407-002	7	-.3713672000-002	-.1139543339-001
8	-.2504228940-002	-.1157222062-001	8	-.1521047923-001	.1839023996-002
9	-.1537053682-001	.7894218463-003	9	.1125023056-002	.1168218098-001
10	-.4173807964-003	.1169299468-001	10	.1540201831-001	.3825057811-003
11	.1525834279-001	.1664985095-002	11	.2108274198-002	-.1156952179-001
12	.3922619647-002	-.1127499571-001	12	-.1489055649-001	-.3038381175-002
13	-.1424960125-001	-.4473646608-002	13	-.5822945901-002	.1077277978-001
14	-.7757549648-002	.1002876183-001	14	.1328943471-001	.5931020499-002
15	.1197105631-001	.7359202090-002	15	.9659298371-002	-.9014420313-002
16	.1144539479-001	-.7710530731-002	16	-.1026740971-001	-.8695270545-002
17	-.8169011477-002	-.9865656783-002	17	-.1301851326-001	.6111388884-002
18	-.1426973658-001	.4229307439-002	18	.5689997949-002	.1078848254-001
19	.2874089994-002	.1137755132-001	19	.1508368860-001	-.2098998592-002
20	.1534615158-001	.2187017258-003	20	.2002376755-003	-.1154818963-001
30	.1301129561-001	-.5838473777-002	30	-.7963575869-002	-.9677771545-002
31	-.3535914803-002	-.1098142629-001	31	-.1482850475-001	.253617625-002
40	.1511369092-001	-.5819478097-003	40	-.9140487876-003	-.1093590358-001
41	.5357817027-002	-.1017459068-001	41	-.1414900056-001	-.3938553354-002
50	.7088453943-003	.1048049552-001	50	.1501010144-001	-.4045850444-003
51	.1326442613-001	.4972535176-002	51	.7039296062-002	-.9174415206-002
60	-.6421166079-002	-.8983881180-002	60	-.1349956-001	.4153463061-002
61	-.1461117233-001	-.2175623552-002	61	-.3143534453-002	.9586687526-002
70	-.6093868808-002	.8299283083-002	70	.1368942618-001	.3848037271-002
71	.5323134844-002	.8522689951-002	71	.1402351562-001	-.3080084396-002
80	.6567759399-002	.7468926989-002	80	.1384744228-001	-.3310151868-002
81	.1350547126-001	.4057543473-002	81	.7367055669-002	-.6956934477-002
90	-.6452840492-002	.6052192317-002	90	.1537220635-001	.3016985737-002
91	.5772342192-003	.6573811868-002	91	.1693985921-001	.2676928765-003
99	.1336246769-001	-.2310408001-002	99	-.1891356220-001	-.4262993859-002
100	.1084554275-001	-.2320248501-002	100	-.2283376183-001	-.4273553747-002

REAL X = .1000000000+003		IMAGINARY X = -.3000000000+001		SECOND KIND		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND REAL	N	IMAGINARY	N	REAL	N	IMAGINARY	N	IMAGINARY
0	-.4834409074-001	0	-.8783634882-001	0	-.8825772973-001	0	-.8825772973-001	0	4.807934471-001
1	-.8871440872-001	1	.4718728085-001	1	.4744789622-001	1	.4744789622-001	1	.8829025643-001
2	.4564262125-001	2	.8917092316-001	2	.8960049689-001	2	.8960049689-001	2	-.4539035400-001
3	.90860885160-001	3	-.4266434141-001	3	-.4290387546-001	3	-.4290387546-001	3	-.9042345351-001
4	-.319856617-001	4	.9196410541-001	4	-.9241134916-001	4	-.9241134916-001	4	.3897638669-001
5	-.9413747051-001	5	.3428927335-001	5	.3448919101-001	5	.3448919101-001	5	.9367888778-001
6	.2873970279-001	6	.9542215950-001	6	.9589288646-001	6	.9589288646-001	6	-.2856726291-001
7	.9749846056-001	7	-.2178356291-001	7	-.2192301301-001	7	-.2192301301-001	7	-.9701564662-001
8	-.1403914628-001	8	-.9824840732-001	8	-.9874220361-001	8	-.9874220361-001	8	.1392943641-001
9	-.9938082443-001	9	.5024862746-002	9	.5080956117-002	9	.5080956117-002	9	.9887838910-001
10	-.4863847489-002	10	.9863631143-001	10	.9914361718-001	10	.9914361718-001	10	.4869499931-002
11	.9773948490-001	11	.1563952247-001	11	.1568983193-001	11	.1568983193-001	11	-.9723267047-001
12	.2721589946-001	12	-.9436865970-001	12	-.9486789856-001	12	-.9486789856-001	12	-.2710474258-001
13	-.9023449957-001	13	-.3900653783-001	13	-.3918237771-001	13	-.3918237771-001	13	.8975170846-001
14	-.5124163823-001	14	.8311612232-001	14	.8357183420-001	14	.8357183420-001	14	.5099882193-001
15	.7466532648-001	15	.6264313811-001	15	.6295312620-001	15	.6295312620-001	15	-.7424892764-001
16	.7378501921-001	16	-.6502044808-001	16	-.6338401908-001	16	-.6338401908-001	16	-.7341035505-001
17	-.4971482316-001	17	-.8269137088-001	17	-.8312493536-001	17	-.8312493536-001	17	.4941835620-001
18	-.9030298256-001	18	.3358295637-001	18	.3379802636-001	18	.3379802636-001	18	.8981919994-001
19	.1596066054-001	19	.9410443986-001	19	.9462286385-001	19	.9462286385-001	19	-.1584031437-001
20	.9542111110-001	20	.3271346031-002	20	.3256872814-002	20	.3256872814-002	20	-.9488527557-001
30	.7720973418-001	30	-.4486898675-001	30	-.4519739703-001	30	-.4519739703-001	30	-.7672183097-001
31	-.1890329365-001	31	-.8614476642-001	31	-.8671689933-001	31	-.8671689933-001	31	.1874020036-001
40	.8146070615-001	40	-.3420309890-002	40	-.3493103445-002	40	-.3493103445-002	40	-.8079201807-001
41	.2986209141-001	41	-.7426938238-001	41	-.7491953265-001	41	-.7491953265-001	41	-.2965141528-001
50	.2338088009-002	50	.7124352454-001	50	.7204622511-001	50	.7204622511-001	50	-.2255715004-002
51	.6229313364-001	51	.3387381436-001	51	.3421886417-001	51	.3421886417-001	51	-.6154464856-001
60	-.2563313137-001	60	-.5500588634-001	60	-.5590169000-001	60	-.5590169000-001	60	.2533269520-001
61	-.5900126590-001	61	-.1320224802-001	61	-.1335485124-001	61	-.1335485124-001	61	.5795726935-001
70	-.2085527165-001	70	.4472068005-001	70	.4605081829-001	70	.4605081829-001	70	.2038908275-001
71	.1727347140-001	71	.4500813721-001	71	.4632749143-001	71	.4632749143-001	71	-.1664162691-001
80	.1694448815-001	80	.3392613198-001	80	.3577468735-001	80	.3577468735-001	80	-.1580236443-001
81	.3379591171-001	81	.1761804943-001	81	.1847958859-001	81	.1847958859-001	81	-.3167432818-001
90	-.1125685806-001	90	.2325061228-001	90	.23730447976-001	90	.23730447976-001	90	.1035762854-001
91	.1177830856-002	91	.2421558082-001	91	.2862484803-001	91	.2862484803-001	91	-.1651360579-003
99	.1380404882-001	99	-.8091686433-002	99	-.8091686433-002	99	-.8091686433-002	99	-.1146967018-001
100	.1030722235-001	100	-.7747801501-002	100	-.7747801501-002	100	-.7747801501-002	100	-.1082432680-001

REAL X = .100000000+00i		IMAGINARY Y = -.100000000+00i		SEAL KIND		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL BESSEL	N	IMAGINARY BESSEL	N	IMAGINARY BESSEL
0	-.4581218706+002	0	-.9955040423+002	0	-.9955040460+002	0	.4581218679+002
1	-.9990542585+002	1	.4478118063+002	1	.4478118089+002	1	.9990542548+002
2	.4271168576+002	2	.1005837595+003	2	.1005937899+003	2	-.4271168550+002
3	.1015219282+003	3	-.3959034112+002	3	-.3959034136+002	3	-.1015219258+003
4	-.5540112415+002	4	-.1026240572+003	4	-.1026240576+003	4	.3540112392+002
5	-.1037620100+003	5	.3013016758+002	5	.3013016779+002	5	.1037620096+003
6	.2377216084+002	6	.1047754793+003	6	.1047754798+003	6	-.2377216065+002
7	.1054731078+003	7	-.1633823549+002	7	-.1633823665+002	7	-.1054731974+003
8	-.7865177454+001	8	-.1052552165+003	8	-.1056355119+003	8	.7865177327+001
9	-.1050190160+003	9	-.1574393134+001	9	-.1574383047+001	9	.1050190155+003
10	-.1186125795+002	10	.1033637401+003	10	.1033637406+003	10	.1186125800+002
11	.1064036668+003	11	.2281923364+002	11	.2281923365+002	11	-.1004036663+003
12	.5420541339+002	12	-.9586060086+002	12	-.958606134+002	12	-.3420581332+002
13	-.8956359266+002	13	-.4570544144+002	13	-.4570544158+002	13	.8956359219+002
14	-.5692672735+002	14	.8126830271+002	14	.8126830274+002	14	.5692672715+002
15	.7008484847+002	15	.6740527110+002	15	.6740527114+002	15	-.7008484803+002
16	.7661454520+002	16	-.540344452+002	16	-.5403444537+002	16	-.7661454886+002
17	-.4304411514+002	17	-.1598447033+002	17	-.1598447037+002	17	.4304411534+002
18	-.8853238768+002	18	.2777704800+002	18	.2777704874+002	18	.8893238721+002
19	.1034733372+002	19	.7092650302	19	.7090255650+002	19	-.1034733355+002
20	.8941779404+002	20	.7723068005+001	20	.7723068925+001	20	-.8941779353+002
30	.6145413190+002	30	-.352664065+002	30	-.335864014+002	30	-.6145913134+002
31	-.1269492298+002	31	.5673130926+002	31	.6673130997+002	31	.1269492268+002
40	.4899311046+002	40	-.2296734711+001	40	-.2296735000+001	40	-.4899311539+002
41	.1706175920+002	41	.4382414313+002	41	.4382414433+002	41	-.1706175903+002
50	.2533856213+001	50	.3031573110+002	50	.3031573288+002	50	-.2533855631+001
51	.2597544139+002	51	.1241264311+002	51	.1241264352+002	51	-.2597543944+002
60	-.8539371035+001	60	-.1793664056+002	60	-.1395664317+002	60	.8538368331+001
61	-.1516422002+002	61	-.150652155+001	61	-.1500581511+001	61	.1516491600+002
70	-.1580273664+001	70	.718938011+001	70	.7189389249+001	70	.1580274386+001
71	.3664214811+001	71	.4627286227+001	71	.5627292823+001	71	-.3664206921+001
80	.1845092475+001	80	.181830635+001	80	.1818318922+001	80	-.1845064551+001
81	.2272169874+001	81	.3005264581+000	81	.3005180232+000	81	-.2272135799+001
90	.1300636259+000	90	.5976743144+000	90	.5979912621+000	90	-.1299561586+000
91	.3236871612+000	91	.3962721421+000	91	.3963350344+000	91	-.3235503241+000
99	-.4434742609+001	99	-.6565158582+001	99	-.6576936776+001	99	.4294729243+001
100	-.4549109108+001	100	-.3641580696+001	100	-.3591373783+001	100	.4365697236+001

REAL X = .1000000000+003		IMAGINARY X = -.1000000000+003		IMAGINARY BESSEL		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL BESSEL	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.2392109956+041	0	-.9197960756+041	0	-.9197960756+041	0	-.9197960756+041	0	-.2392109956+041
1	-.9140010402+041	1	-.2426139210+041	1	-.2426139210+041	1	-.2426139210+041	1	.9140010402+041
2	-.2492818024+041	2	.9024468511+041	2	.9024468511+041	2	.9024468511+041	2	.2492818024+041
3	.8852678239+041	3	.2589430472+041	3	.2589430472+041	3	.2589430472+041	3	-.8852678239+041
4	.2712010696+041	4	-.8624015706+041	4	-.8624015706+041	4	-.8624015706+041	4	-.2712010696+041
5	-.8341957050+041	5	-.2855470698+041	5	-.2855470698+041	5	-.2855470698+041	5	.8341957050+041
6	-.3013767445+041	6	.8008157180+041	6	.8008157180+041	6	.8008157180+041	6	.3013767445+041
7	.7625531950+041	7	.3180106030+041	7	.3180106030+041	7	.3180106030+041	7	-.7625531950+041
8	.3347174384+041	8	-.7197734332+041	8	-.7197734332+041	8	-.7197734332+041	8	-.3347174384+041
9	-.6729214709+041	9	.3507403626+041	9	.3507403626+041	9	.3507403626+041	9	.6729214709+041
10	-.3653246442+041	10	.6225255590+041	10	.6225255590+041	10	.6225255590+041	10	-.3653246442+041
11	.5691971995+041	11	.3777464585+041	11	.3777464585+041	11	.3777464585+041	11	-.5691971995+041
12	.3873414794+041	12	-.5136270383+041	12	-.5136270383+041	12	-.5136270383+041	12	.3873414794+041
13	-.4565761348+041	13	-.3935321535+041	13	-.3935321535+041	13	-.3935321535+041	13	-.4565761348+041
14	-.5458524109+041	14	.3988624194+041	14	.3988624194+041	14	.3988624194+041	14	.5458524109+041
15	.3413424835+041	15	.3939686038+041	15	.3939686038+041	15	.3939686038+041	15	-.3413424835+041
16	.3876953632+041	16	-.2848892009+041	16	-.2848892009+041	16	-.2848892009+041	16	.3876953632+041
17	-.2303660296+041	17	-.3770055862+041	17	-.3770055862+041	17	-.3770055862+041	17	-.2303660296+041
18	-.3620334458+041	18	.1785991681+041	18	.1785991681+041	18	.1785991681+041	18	.3620334458+041
19	.1303489961+041	19	.3430702448+041	19	.3430702448+041	19	.3430702448+041	19	-.1303489961+041
20	.3205528023+041	20	-.8628241610+041	20	-.8628241610+041	20	-.8628241610+041	20	.3205528023+041
30	.4888740295+040	30	-.7804364646+040	30	-.7804364646+040	30	-.7804364646+040	30	.4888740295+040
31	-.7239447134+040	31	.3104431435+040	31	.3104431435+040	31	.3104431435+040	31	-.7239447134+040
40	-.1430915818+040	40	.5481911310+039	40	.5481911310+039	40	.5481911310+039	40	.1430915818+040
41	.2019117458+039	41	.1227591424+040	41	.1227591424+040	41	.1227591424+040	41	-.2019117458+039
50	-.4590311226+038	50	.1443096596+039	50	.1443096596+039	50	.1443096596+039	50	.4590311226+038
51	.9809373334+038	51	.6184441092+038	51	.6184441092+038	51	.6184441092+038	51	-.9809373334+038
60	.1067320291+037	60	.8752961824+037	60	.8752961824+037	60	.8752961824+037	60	.1067320291+037
61	.6344067578+037	61	.1121637424+037	61	.1121637424+037	61	.1121637424+037	61	-.6344067578+037
70	.2980662635+035	70	.2977306029+036	70	.2977306029+036	70	.2977306029+036	70	.2980662635+035
71	.2010431392+036	71	.4932432609+035	71	.4932432609+035	71	.4932432609+035	71	-.2010431392+036
80	-.2021197849+034	80	.5398015060+034	80	.5398015060+034	80	.5398015060+034	80	.2021197849+034
81	.2844248688+034	81	.2559185746+034	81	.2559185746+034	81	.2559185746+034	81	-.2844248688+034
90	-.6131323453+032	90	.2304410877+032	90	.2304410877+032	90	.2304410877+032	90	.6131323453+032
91	-.2506142855+031	91	.4043708826+032	91	.4043708826+032	91	.4043708826+032	91	.2506142855+031
99	.2915616546+030	99	-.6444524004+030	99	-.6444524004+030	99	-.6444524004+030	99	-.2915616546+030
100	-.2651086885+030	100	-.3201394250+030	100	-.3201394250+030	100	-.3201394250+030	100	.2651086885+030

REAL X = .1000000000+004		IMAGINARY X = .0000000000		SECOND KIND		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.8268795405-003	0	-.5623790763-003	0	-.5623790763-003	0	.0000000000
1	-.5615521968-003	1	-.8274419196-003	1	-.8274419196-003	1	.0000000000
2	-.8285641971-003	2	.5598967505-003	2	.5598967505-003	2	.0000000000
3	.5574093758-003	3	.8302414034-003	3	.8302414034-003	3	.0000000000
4	.6324660628-003	4	-.5540850607-003	4	-.5540850607-003	4	.0000000000
5	-.5499171812-003	5	-.8352281689-003	5	-.8352281689-003	5	.0000000000
6	-.8385151517-003	6	.5448975509-003	6	.5448975509-003	6	.0000000000
7	.5390164842-003	7	.8423118371-003	7	.8423118371-003	7	.0000000000
8	.8466803990-003	8	-.5322628733-003	8	-.5322628733-003	8	.0000000000
9	-.5246242774-003	9	-.8513603059-003	9	-.8513603059-003	9	.0000000000
10	-.8565682603-003	10	.5160870275-003	10	.5160870275-003	10	.0000000000
11	.5066363440-003	11	.8621981335-003	11	.8621981335-003	11	.0000000000
12	.8682208962-003	12	-.4962564704-003	12	-.4962564704-003	12	.0000000000
13	-.4849308216-003	13	-.8746045453-003	13	-.8746045453-003	13	.0000000000
14	-.8813140284-003	14	.4726421477-003	14	.4726421477-003	14	.0000000000
15	.4593727148-003	15	.8883111675-003	15	.8883111675-003	15	.0000000000
16	.8955545825-003	16	-.4451045015-003	16	-.4451045015-003	16	.0000000000
17	-.4298194135-003	17	-.9029996161-003	17	-.9029996161-003	17	.0000000000
18	-.9105982620-003	18	.4134995149-003	18	.4134995149-003	18	.0000000000
19	.3961272778-003	19	.9182990981-003	19	.9182990981-003	19	.0000000000
20	.9260472258-003	20	-.3776858501-003	20	-.3776858501-003	20	.0000000000
30	-.9915016930-003	30	.1318700748-003	30	.1318700748-003	30	.0000000000
31	.1010717271-003	31	.9951285719-003	31	.9951285719-003	31	.0000000000
40	.9756714624-003	40	.2211022528-003	40	.2211022528-003	40	.0000000000
41	.2609242061-003	41	-.9658057108-003	41	-.9658057108-003	41	.0000000000
50	-.7793195564-003	50	-.6276451790-003	50	-.6276451790-003	50	.0000000000
51	-.6665907154-003	51	.7463145848-003	51	.7463145848-003	51	.0000000000
60	.3314315694-003	60	.9444512432-003	60	.9444512432-003	60	.0000000000
61	.9629392502-003	61	-.2732112341-003	61	-.2732112341-003	61	.0000000000
70	.3130314795-003	70	-.9510549881-003	70	-.9510549881-003	70	.0000000000
71	-.9264626594-003	71	-.3797799079-003	71	-.3797799079-003	71	.0000000000
80	-.8803982363-003	80	.4776554956-003	80	.4776554956-003	80	.0000000000
81	.4047902507-003	81	.9162327671-003	81	.9162327671-003	81	.0000000000
90	.9381041847-003	90	.3520113521-003	90	.3520113521-003	90	.0000000000
91	.4359464486-003	91	-.9023099003-003	91	-.9023099003-003	91	.0000000000
99	.9397878358-003	99	-.3489783311-003	99	-.3489783311-003	99	.0000000000
100	-.2532631123-003	100	-.9700239001-003	100	-.9700239001-003	100	.0000000000

REAL X = .100000000+004		IMAGINARY X = -.100000000-002	
FIRST KIND		SECOND KIND	
N	REAL BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	.8268799545-003	-.5615522901-006	-.5623793567-003
1	-.5615524767-003	-.8280027831-006	-.8274422856-006
2	-.8285646120-003	.5590665971-006	.8291217482-006
3	.5574045536-003	.8307939733-006	-.5565758774-006
4	.8324664745-003	-.5532471374-006	-.8330119677-006
5	-.5499174553-003	-.8357657053-006	.5490737829-006
6	-.8385155715-003	.5440476655-006	.8390425918-006
7	.5390167529-003	.8428274243-006	-.5381591456-006
8	.8466008228-003	-.5313971689-006	-.8471023443-006
9	-.5246245389-003	-.8518467839-006	.5237493572-006
10	-.8565686890-003	.5152021122-006	.8570374062-006
11	.5066365964-003	.8626480403-006	-.5057407339-006
12	.8682213307-003	-.4953495546-006	-.8686496125-006
13	-.4849310531-003	-.8750100737-006	.4840120871-006
14	-.8813144694-003	.4717111895-006	.8816943245-006
15	.4593729435-003	.8886641400-006	-.4584292451-006
16	.895550306-003	-.4441483606-006	-.8958780935-006
17	-.4298106275-003	-.9032914826-006	.4288505796-006
18	-.9105987176-003	.4125181150-006	.9108562582-006
19	.3961274749-003	.9185209607-006	-.3951335985-006
20	.9260476890-003	-.3766803485-006	-.9262306554-006
30	-.9915021884-003	.1308167993-006	.9911726347-006
31	.1010717766-003	.9947361539-006	-.1000259768-006
40	.9756719492-003	.2218973849-006	-.9746499630-006
41	.2609243375-003	-.4547128062-006	-.2616661365-006
50	-.7793199444-003	-.6276248422-006	.7776969728-006
51	-.6665910485-003	.7446569627-006	.6664536485-006
60	.3314317336-003	.9430535127-006	-.3298783631-006
61	.9629307301-003	-.2717293807-006	-.9613904994-006
70	.3130316362-003	-.9483750202-006	-.3132061110-006
71	-.9264631199-003	-.3797368543-006	.9237109878-006
80	-.8803986741-003	.4752221880-006	.8780204730-006
81	.4047904508-003	.9135911882-006	-.4025244751-006
90	.9381946496-003	.3515090304-006	-.9339910762-006
91	.4359466657-003	-.8980872597-006	-.4350239351-006
99	.939783014-003	-.3463021649-006	-.9354751998-006
100	-.2532632367-003	-.9653675695-006	.2510059583-006

REAL X = .1000000000+004		IMAGINARY X = -.1000000000-001	
N	FIRST KESSEL	IMAGINARY BESSEL	REAL BESSEL
0	.8269209410-003	-.5615615284-005	-.5624071127-003
1	-.5615801917-003	-.8280164636-005	-.8274833480-003
2	-.8286056813-003	.5590757942-005	.5599246625-003
3	.5574371631-003	.8308076996-005	.8302829709-003
4	.8325077409-003	-.5532562383-005	-.5541126813-003
5	-.5499445924-003	-.8357795132-005	-.8352699843-003
6	-.8385571305-003	.5440566143-005	.5449247109-003
7	.5390433495-003	.8428413479-005	.8423540045-003
8	.8466427795-003	-.5314059084-005	-.5322894000-003
9	-.5246504213-003	-.8518608554-005	-.8514029228-003
10	-.8566111359-003	.5152105838-005	.5161127435-003
11	.5066615864-003	.8626622888-005	.8622412886-003
12	.8682643504-003	-.4953576979-005	-.4962811927-003
13	-.4849549764-003	-.8750245247-005	-.8746483163-003
14	-.8813581324-003	.4717189420-005	.4726656869-003
15	.4593955892-003	.8886788146-005	.8883556186-003
16	.8955993929-003	-.4441556575-005	-.4451266613-003
17	-.4298408078-003	-.9033063965-005	-.9030447955-003
18	-.9106438180-003	.4125248892-005	.4135200919-003
19	.3961469850-003	.9185361236-005	.9183450355-003
20	.9260935464-003	-.3768865306-005	-.3777046340-003
30	-.9915512355-003	.1308189231-005	.1318765631-003
31	.1010766762-003	.9947525541-005	.9951782894-003
40	.9757201442-003	.2219010723-005	.2211133873-003
41	.2609373264-003	-.9647286879-005	-.9658538921-003
50	-.7793583605-003	-.6276351971-005	-.6276765593-003
51	-.6666240313-003	.7446691951-005	.7463517352-003
60	.3314479862-003	.9430690270-005	.9444983263-003
61	.9629872426-003	-.2717338158-005	-.2732224769-003
70	.3130471483-003	-.9483905803-005	-.9511022736-003
71	.9265087082-003	-.3797431192-005	-.3797980923-003
80	-.8804420188-003	.4752299497-005	.4776791360-003
81	.4048102646-003	.9136061755-005	.9162783151-003
90	.9382406754-003	.3515148133-005	.3520289020-003
91	.4359681534-003	-.8981019399-005	-.9023545949-003
99	.9398343950-003	-.3463077919-005	-.3489955139-003
100	-.2532755511-003	-.9653833454-005	-.9700719369-003

IMAGINARY RESSEL	
-.8274557290-005	
.5607335102-005	
.8291354471-005	
-.5565050334-005	
-.8330257304-005	
.5490828148-005	
.8390564534-005	
-.5381679969-005	
-.8471163380-005	
.5237579702-005	
.8570515628-005	
-.5057490490-005	
-.8686639594-005	
.4840200430-005	
.8817088850-005	
-.4584367781-005	
-.8958928861-005	
.4288576236-005	
.9108712964-005	
-.3951400854-005	
-.9262459442-005	
.9911889782-005	
-.1000275928-005	
-.9746660110-005	
-.2616704783-005	
.7777097514-005	
.6664646403-005	
-.3298837553-005	
-.9614063113-005	
-.3132112842-005	
.9237261387-005	
.8780348820-005	
-.4025310428-005	
-.9340063494-005	
-.4350310822-005	
-.9354904936-005	
.2510100267-005	

REAL X = .1000000000+004		IMAGINARY X = -.1000000000+000		SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8310230096-003	-.5624858205-004	0	-.5651850275-003	-.8288235474-004
1	-.5643539988-003	-.8293852021-004	1	-.8315881863-003	.5616564318-004
2	-.8327160467-003	.5599959719-004	2	.5626902461-003	.8305060219-004
3	.5601903906-003	.8321810184-004	3	.8344015960-003	-.5575010883-004
4	.8366373211-003	-.5541667835-004	4	-.5568493959-003	-.8344026886-004
5	-.5526606050-003	-.8371609897-004	5	-.8394131654-003	.5499864525-004
6	-.8427164956-003	.5449519334-004	6	.5476157907-003	.8404433060-004
7	.5417052198-003	.8442344094-004	7	.8465320614-003	-.5390535706-004
8	.8508419472-003	-.5322802918-004	8	-.5349177291-003	-.8485164115-004
9	-.5272408163-003	-.8532687100-004	9	-.8556255184-003	.5246196982-004
10	-.8608593605-003	.5160581689-004	10	.5166607447-003	.8584679288-004
11	.5091626616-003	.8640878534-004	11	.8665172137-003	-.5065809800-004
12	.8725699028-003	-.4961794377-004	12	-.4987307325-003	-.8700993613-004
13	-.4873482902-003	-.8756470349-004	13	-.8789852643-003	.4848160279-004
14	-.8857290694-003	.4724945801-004	14	.4749979997-003	.8831656613-004
15	.4616620394-003	.8901470065-004	15	.8927599501-003	-.4591904490-004
16	.9000393170-003	-.4448857117-004	16	-.4473222991-003	-.8973728896-004
17	-.4319605954-003	-.9047985335-004	17	-.9075212896-003	.4295623823-004
18	-.9151576210-003	.4132026447-004	18	.4155589040-003	.9123758095-004
19	.980996109-003	.0200531704-004	19	.9228966314-003	-.3957691020-004
20	.9306831469-003	-.3773050455-004	20	-.3795657814-003	-.9277755914-004
30	-.9964600263-003	.1310314085-004	30	.1325194324-003	.9928241413-004
31	.1015670409-003	.0963933011-004	31	.1000104420-003	-.1001892735-004
40	.9805436498-003	.2222699969-004	40	.2222160322-003	-.9762716178-004
41	.2622373275-003	-.9663176555-004	41	-.9706273144-003	-.2621048780-004
50	-.7832031628-003	-.6286712126-004	50	-.6307657950-003	.7789882535-004
51	-.6692250525-003	.7458930401-004	51	.7500326801-003	.6675643705-004
60	.3330745873-003	.9446212276-004	60	.9491634279-003	-.3304232350-004
61	.9677424423-003	-.2721775387-004	61	-.2745636242-003	-.9629882873-004
70	.3145996493-003	-.9499473711-004	70	-.9557874168-003	-.3137268715-004
71	-.9310713104-003	-.3803698195-004	71	-.3816799194-003	.9252419814-004
80	-.8847600847-003	.4760065008-004	80	.4800214676-003	.8794764988-004
81	.4067932728-003	.9151056501-004	81	.9207913030-003	-.4031881373-004
90	.9428470623-003	.3520934860-004	90	.3537677924-003	-.9355344257-004
91	.4381187145-003	-.8995706888-004	91	-.9067830198-003	.4357461451-004
99	.9444475640-003	-.3468707701-004	99	-.3506980042-003	-.9370206314-004
100	-.2515080030-003	-.9669617123-004	100	-.9748315093-003	.2514170665-004

REAL X = .1000000000+004		IMAGINARY X = -.5000000000+000		SECOND KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL
0	.9325571334-003	0	-.2925866180-003	0	-.6339376487-003	0	-.4312000156-003	0	-.4312000156-003	0	-.4312000156-003
1	-.6330049455-003	1	-.4314921361-003	1	-.9331908553-003	1	-.4314921361-003	1	-.9331908553-003	1	-.2921553011-003
2	-.934455005-003	2	.2912913924-003	2	.6311376386-003	2	.2912913924-003	2	.6311376386-003	2	.4320750815-003
3	.6283319409-003	3	.4329462565-003	3	.9363454625-003	3	.4329462565-003	3	.9363454625-003	3	-.2899933484-003
4	.9388523077-003	4	-.2882585702-003	4	-.6245822070-003	4	-.6245822070-003	4	-.6245822070-003	4	-.4341017572-003
5	-.6198809751-003	5	.4355363582-003	5	-.9419647475-003	5	-.9419647475-003	5	-.9419647475-003	5	.2860836230-003
6	-.9456686013-003	6	.2834642621-003	6	.6142190239-003	6	.6142190239-003	6	.6142190239-003	6	.4372434955-003
7	.6075854439-003	7	.4392152458-003	7	.9499467508-003	7	.9499467508-003	7	.9499467508-003	7	-.2803954665-003
8	.9547790865-003	8	-.2768714782-003	8	-.5999677233-003	8	-.5999677233-003	8	-.5999677233-003	8	-.4414423018-003
9	-.5913518500-003	9	.4339139442-003	9	-.9601424472-003	9	-.9601424472-003	9	-.9601424472-003	9	.2728858495-003
10	-.9660105517-003	10	.2684314975-003	10	.5817224289-003	10	.5817224289-003	10	.5817224289-003	10	.4466180103-003
11	.5710628150-003	11	.4495408611-003	11	.9723539257-003	11	.9723539257-003	11	.9723539257-003	11	-.2635007656-003
12	.9791308235-003	12	-.2580854931-003	12	-.5593552640-003	12	-.5593552640-003	12	-.5593552640-003	12	-.4526673444-003
13	-.5465810995-003	13	.4559807576-003	13	-.9863321455-003	13	-.9863321455-003	13	-.9863321455-003	13	.2521770929-003
14	-.9938913537-003	14	.2457666369-003	14	.5327208983-003	14	.5327208983-003	14	.5327208983-003	14	.4594628087-003
15	.5177546938-003	15	.4630935768-003	15	.1001774385-002	15	.1001774385-002	15	.1001774385-002	15	-.2388449503-003
16	.1009934567-002	16	-.2314027144-003	16	-.5016621980-003	16	-.5016621980-003	16	-.5016621980-003	16	-.4668514728-003
17	-.4844230433-003	17	.4707132006-003	17	-.1010321531-002	17	-.1010321531-002	17	-.1010321531-002	17	.2234305781-003
18	-.1026881132-002	18	.2149192791-003	18	.4660170433-003	18	.4660170433-003	18	.4660170433-003	18	.4746537204-003
19	.4464244749-003	19	.4786462146-003	19	.1035555378-002	19	.1035555378-002	19	.1035555378-002	19	-.2058597735-003
20	.1044282349-002	20	-.1962433761-003	20	-.4256263795-003	20	-.4256263795-003	20	-.4256263795-003	20	-.4826620563-003
30	-.1117956991-002	30	.6812311941-004	30	.1484259133-003	30	.1484259133-003	30	.1484259133-003	30	.5164811261-003
31	.1136988853-003	31	.5183353567-003	31	.1122030255-002	31	.1122030255-002	31	.1122030255-002	31	-.5207850296-004
40	.1099926202-002	40	.1156634030-003	40	.2495273083-003	40	.2495273083-003	40	.2495273083-003	40	-.5078417557-003
41	.2944176908-003	41	-.5026605172-003	41	-.1088782756-002	41	-.1088782756-002	41	-.1088782756-002	41	-.1363844259-003
50	-.8783585834-003	50	.3270511568-003	50	-.7077430804-003	50	-.7077430804-003	50	-.7077430804-003	50	.4051850457-003
51	-.7516286757-003	51	.3879665870-003	51	.8411322557-003	51	.8411322557-003	51	.8411322557-003	51	.3472796813-003
60	.373271843-003	60	.4913608873-003	60	.1064623365-002	60	.1064623365-002	60	.1064623365-002	60	-.1718321664-003
61	.1085431658-002	61	.1415340812-003	61	-.3076950659-003	61	-.3076950659-003	61	-.3076950659-003	61	-.5009097914-003
70	.3530267587-003	70	-.4940796627-003	70	-.1071736999-002	70	-.1071736999-002	70	-.1071736999-002	70	-.1632171333-003
71	-.1043987511-002	71	.1978767119-003	71	-.4828237353-003	71	-.4828237353-003	71	-.4828237353-003	71	.4812243558-003
80	-.9921405337-003	80	.2475330714-003	80	.5379849137-003	80	.5379849137-003	80	.5379849137-003	80	.4574307770-003
81	.4558638756-003	81	.4759553416-003	81	.1032479970-002	81	.1032479970-002	81	.1032479970-002	81	-.2096578211-003
90	.1056839749-002	90	.183147515-003	90	.3968048061-003	90	.3968048061-003	90	.3968048061-003	90	-.4865200131-003
91	.4913429751-003	91	-.4678099818-003	91	-.1016370849-002	91	-.1016370849-002	91	-.1016370849-002	91	-.2266489383-003
99	.1058667492-002	99	-.1803438091-003	99	-.3928234924-003	99	-.3928234924-003	99	-.3928234924-003	99	-.4872883537-003
100	-.2950015743-003	100	-.5028506677-003	100	-.1092613401-002	100	-.1092613401-002	100	-.1092613401-002	100	.1307032515-003

REAL X = .1000000000+004		IMAGINARY X = -.1000000000+001			
FIRST KIND		SECOND KIND			
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1276001438-002	-.596319603-003	0	-.8668236454-003	-.9726166467-003
1	-.8655463856-003	-.9732750014-003	1	-.1277467288-002	.6586584778-003
2	-.1279195155-002	.6567095416-003	2	.8629892714-003	.9745887877-003
3	.8591471327-003	.9765521498-003	3	.1281777358-002	-.6537812238-003
4	.1285202343-002	-.6498676693-003	4	-.8540122262-003	-.9791562793-003
5	-.8475744744-003	-.9823893862-003	5	-.1289454648-002	.6449611400-003
6	-.1294514847-002	.6390520736-003	6	.8398211809-003	.9862366608-003
7	.8307374905-003	.9906802262-003	7	.1300359491-002	-.6321291586-003
8	-.8085085641-003	-.6241794240-003	8	-.8203063261-003	-.9956930833-003
9	-.1322303660-002	-.1001269047-002	9	-.13140287758-002	.6151883459-003
10	.7807275071-003	.6051399695-003	10	.7953231951-003	.1007362679-002
11	.1340237054-002	.1013949206-002	11	.1330968374-002	-.5940170490-003
12	-.7472070692-003	-.5818012044-003	12	-.7646972907-003	-.1020994445-002
13	-.1360383856-002	-.1028460715-002	13	-.1350060262-002	.5684730960-003
14	.7077399105-003	.5540126182-003	14	.7282303514-003	.1036306752-002
15	.1382291392-002	.1044487614-002	15	.1371148868-002	-.5383991116-003
16	-.6621071270-003	-.5216115947-003	16	-.6857080886-003	-.1052954602-002
17	.6100884206-003	-.1061655164-003	17	-.1393742465-002	.5036290161-003
18	.1429179284-002	.4844305274-003	18	.6369095241-003	.1070532819-002
19	.1529578604-002	.1079527075-002	19	.1417268484-002	-.4639957758-003
20	.1547342264-003	-.4423052201-003	20	-.5816180127-003	-.1086573363-002
21	.4034961332-003	.1533494944-003	21	.2022495659-003	.1164704772-002
22	-.1200648150-002	.1168869355-002	22	.1535100762-002	-.1171669699-003
23	-.1028438831-002	.2610644723-003	23	.3421103029-003	-.1145033428-002
24	.5096059302-003	-.1133329153-002	24	-.1489031274-002	-.3077810802-003
25	.1484072205-002	-.7375753470-003	25	-.9684798476-003	.9133550097-003
26	.4832316835-003	.8745137312-003	26	.1149677991-002	.7831641071-003
27	-.1426378891-002	.1107762502-002	27	.1455270736-002	-.3871062995-003
28	-.1355731949-002	-.3187960181-003	28	-.4198513971-003	-.1129256944-002
29	.6219744178-003	-.113549480-002	29	-.1464410325-002	-.3681395690-003
30	.1442784767-002	-.4462467125-003	30	-.5859743600-003	.1084538496-002
31	.6716098465-003	.5575955024-003	31	.7342131915-003	.1030976522-002
32	.1445111044-002	.1072683153-002	32	.1410718718-002	-.4722229233-003
33	-.3881725281-003	.4129029721-003	33	.5425836364-003	-.1096092514-002
34		-.1053892121-002	34	-.1367390799-002	-.5108962636-003
35		-.4060057046-003	35	-.5353770934-003	-.1097793209-002
36		-.1132798341-002	36	-.1491366482-002	.2941671194-003

REAL X = .1000000000+004		IMAGINARY X = -.3000000000+001		SECOND KIND		IMAGINARY BESSEL		IMAGINARY BESSEL	
N	FIRST KIND	N	REAL BESSEL	N	REAL BESSEL	N	IMAGINARY BESSEL	N	IMAGINARY BESSEL
0	.8341570181-002	0	-.5636940994-002	0	-.8300486640-002	0	-.5608818538-002	0	-.8300486640-002
1	-.5628582672-002	1	-.8347182170-002	1	-.5600501215-002	1	-.8306070384-002	1	-.5600501215-002
2	-.8358381023-002	2	.5611849268-002	2	.6317212869-002	2	.563849894-002	2	.6317212869-002
3	.5586707386-002	3	.8375116407-002	3	-.5558831348-002	3	.8333864007-002	3	-.5558831348-002
4	.8397312613-002	4	-.5553107247-002	4	-.8355948462-002	4	-.5525396051-002	4	-.8355948462-002
5	-.5510983069-002	5	-.8424868314-002	5	.5483478556-002	5	-.8383365399-002	5	.5483478556-002
6	-.8457656233-002	6	.5460253576-002	6	.8415988165-002	6	.5432998001-002	6	.8415988165-002
7	.5400822642-002	7	.8495522751-002	7	-.5373858747-002	7	.8453663891-002	7	-.5373858747-002
8	.8538287432-002	8	-.5332580060-002	8	-.8496213026-002	8	-.5305951149-002	8	-.8496213026-002
9	-.5255402461-002	9	-.8585742493-002	9	.5229152466-002	9	-.8543428800-002	9	.5229152466-002
10	-.8637652209-002	10	.5169154362-002	10	.8595076645-002	10	.5143327907-002	10	.8595076645-002
11	.5073689370-002	11	.8693752272-002	11	-.5048331827-002	11	.8650893547-002	11	-.5048331827-002
12	.8753749108-002	12	-.4968851528-002	12	.8710587369-002	12	-.4944009065-002	12	.8710587369-002
13	-.4854476815-002	13	-.8817319155-002	13	.4830196442-002	13	-.8773836136-002	13	.4830196442-002
14	-.8884108128-002	14	.4730394811-002	14	.8840287303-002	14	.4706724412-002	14	.8840287303-002
15	.4596430517-002	15	.8953730271-002	15	-.4573418877-002	15	.8909557005-002	15	-.4573418877-002
16	.9025767610-002	16	-.4452406346-002	16	.8981229323-002	16	-.4430103167-002	16	.8981229323-002
17	-.4298144290-002	17	-.9099769225-002	17	.4276600192-002	17	-.9054855551-002	17	.4276600192-002
18	-.9175250555-002	18	.4133468251-002	18	.9129953515-002	18	.4112734774-002	18	.9129953515-002
19	.3958206565-002	19	.9251692758-002	19	-.3938336142-002	19	.9206006925-002	19	-.3938336142-002
20	.9328542124-002	20	-.3772194699-002	20	.9282464804-002	20	-.3753240629-002	20	.9282464804-002
30	-.9972118559-002	30	.1296041108-002	30	.9922705876-002	30	.1289318002-002	30	.9922705876-002
31	.9862085774-003	31	.1000673165-001	31	-.9810199136-003	31	.9957128917-002	31	-.9810199136-003
40	.9792000545-002	40	.2249719909-002	40	-.9743272256-002	40	.2238831417-002	40	-.9743272256-002
41	.2649027520-002	41	-.9690541043-002	41	.2636148499-002	41	-.9642293222-002	41	.2636148499-002
50	-.7797289850-002	50	-.6318114952-002	50	.7758246794-002	50	-.6286864235-002	50	.7758246794-002
51	-.6706701234-002	51	.7463974270-002	51	.6673494077-002	51	.7426569101-002	51	.6673494077-002
60	.3290393401-002	60	.9466352334-002	60	-.3273658742-002	60	.9419123253-002	60	-.3273658742-002
61	.964792807-002	61	-.2706411378-002	61	-.9599799670-002	61	-.2692585918-002	61	-.9599799670-002
70	.3156374044-002	70	-.9494674666-002	70	-.3140817044-002	70	-.9446922533-002	70	-.3140817044-002
71	-.9244977819-002	71	-.3821850194-002	71	.9198439131-002	71	-.3802937382-002	71	.9198439131-002
80	-.8792148000-002	80	.4736442306-002	80	.8747960113-002	80	.4712294292-002	80	.8747960113-002
81	.4007910876-002	81	.9145061882-002	81	-.3987415551-002	81	.9099050132-002	81	-.3987415551-002
90	.9319988915-002	90	.3528375679-002	90	-.9272546749-002	90	.3510777353-002	90	-.9272546749-002
91	.4360860199-002	91	-.8912648291-002	91	-.4339019817-002	91	-.8912648291-002	91	-.4339019817-002
99	.9332500484-002	99	-.3416381283-002	99	-.9285063849-002	99	-.3416381283-002	99	-.9285063849-002
100	-.2483084503-002	100	-.9626733386-002	100	.2470132329-002	100	-.9577739269-002	100	.2470132329-002

REAL X = .1000000000+004		IMAGINARY X = -.1000000000+003		SECOND KIND		FIRST KIND		IMAGINARY BESSEL		REAL BESSEL		IMAGINARY BESSEL		REAL BESSEL	
N	REAL BESSEL	IMAGINARY BESSEL	N	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL	N	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL	REAL BESSEL	N	IMAGINARY BESSEL	REAL BESSEL	IMAGINARY BESSEL
0	.1175209481+041	-.6383494695+040	0	-.6383494695+040	-.6383494695+040	-.6383494695+040	0	-.6383494695+040	-.6383494695+040	-.6383494695+040	-.6383494695+040	0	-.6383494695+040	-.6383494695+040	-.6383494695+040
1	-.6371226929+040	-.117525152+041	1	-.117525152+041	-.117525152+041	-.117525152+041	1	-.117525152+041	-.117525152+041	-.117525152+041	-.117525152+041	1	-.117525152+041	-.117525152+041	-.117525152+041
2	-.1176752699+041	.6346679722+040	2	.6346679722+040	.6346679722+040	.6346679722+040	2	.6346679722+040	.6346679722+040	.6346679722+040	.6346679722+040	2	.6346679722+040	.6346679722+040	.6346679722+040
3	.6309829924+040	.1178284522+041	3	.1178284522+041	.1178284522+041	.1178284522+041	3	.1178284522+041	.1178284522+041	.1178284522+041	.1178284522+041	3	.1178284522+041	.1178284522+041	.1178284522+041
4	.1180309215+041	-.6260643289+040	4	-.6260643289+040	-.6260643289+040	-.6260643289+040	4	-.6260643289+040	-.6260643289+040	-.6260643289+040	-.6260643289+040	4	-.6260643289+040	-.6260643289+040	-.6260643289+040
5	-.6199075064+040	-.1182811552+041	5	-.1182811552+041	-.1182811552+041	-.1182811552+041	5	-.1182811552+041	-.1182811552+041	-.1182811552+041	-.1182811552+041	5	-.1182811552+041	-.1182811552+041	-.1182811552+041
6	-.1185772473+041	.6125070761+040	6	.6125070761+040	.6125070761+040	.6125070761+040	6	.6125070761+040	.6125070761+040	.6125070761+040	.6125070761+040	6	.6125070761+040	.6125070761+040	.6125070761+040
7	.6038567130+040	.1189169065+041	7	.1189169065+041	.1189169065+041	.1189169065+041	7	.1189169065+041	.1189169065+041	.1189169065+041	.1189169065+041	7	.1189169065+041	.1189169065+041	.1189169065+041
8	.1192974549+041	-.5939493325+040	8	-.5939493325+040	-.5939493325+040	-.5939493325+040	8	-.5939493325+040	-.5939493325+040	-.5939493325+040	-.5939493325+040	8	-.5939493325+040	-.5939493325+040	-.5939493325+040
9	-.5827772267+040	-.1197158255+041	9	-.1197158255+041	-.1197158255+041	-.1197158255+041	9	-.1197158255+041	-.1197158255+041	-.1197158255+041	-.1197158255+041	9	-.1197158255+041	-.1197158255+041	-.1197158255+041
10	-.1201685605+041	.5703322201+040	10	.5703322201+040	.5703322201+040	.5703322201+040	10	.5703322201+040	.5703322201+040	.5703322201+040	.5703322201+040	10	.5703322201+040	.5703322201+040	.5703322201+040
11	.5566058451+040	.1206518094+041	11	.1206518094+041	.1206518094+041	.1206518094+041	11	.1206518094+041	.1206518094+041	.1206518094+041	.1206518094+041	11	.1206518094+041	.1206518094+041	.1206518094+041
12	.1211613271+041	-.5415895373+040	12	-.5415895373+040	-.5415895373+040	-.5415895373+040	12	-.5415895373+040	-.5415895373+040	-.5415895373+040	-.5415895373+040	12	-.5415895373+040	-.5415895373+040	-.5415895373+040
13	-.5252748495+040	-.1216924732+041	13	-.1216924732+041	-.1216924732+041	-.1216924732+041	13	-.1216924732+041	-.1216924732+041	-.1216924732+041	-.1216924732+041	13	-.1216924732+041	-.1216924732+041	-.1216924732+041
14	-.1222402107+041	.5076536859+040	14	.5076536859+040	.5076536859+040	.5076536859+040	14	.5076536859+040	.5076536859+040	.5076536859+040	.5076536859+040	14	.5076536859+040	.5076536859+040	.5076536859+040
15	.4887185556+040	.1227991060+041	15	.1227991060+041	.1227991060+041	.1227991060+041	15	.1227991060+041	.1227991060+041	.1227991060+041	.1227991060+041	15	.1227991060+041	.1227991060+041	.1227991060+041
16	.1233633298+041	-.4684628440+040	16	-.4684628440+040	-.4684628440+040	-.4684628440+040	16	-.4684628440+040	-.4684628440+040	-.4684628440+040	-.4684628440+040	16	-.4684628440+040	-.4684628440+040	-.4684628440+040
17	-.4468811039+040	-.1239266589+041	17	-.1239266589+041	-.1239266589+041	-.1239266589+041	17	-.1239266589+041	-.1239266589+041	-.1239266589+041	-.1239266589+041	17	-.1239266589+041	-.1239266589+041	-.1239266589+041
18	-.1244824789+041	.4239693643+040	18	.4239693643+040	.4239693643+040	.4239693643+040	18	.4239693643+040	.4239693643+040	.4239693643+040	.4239693643+040	18	.4239693643+040	.4239693643+040	.4239693643+040
19	.3997254565+040	.1250237890+041	19	.1250237890+041	.1250237890+041	.1250237890+041	19	.1250237890+041	.1250237890+041	.1250237890+041	.1250237890+041	19	.1250237890+041	.1250237890+041	.1250237890+041
20	.1255432081+041	-.3741493574+040	20	-.3741493574+040	-.3741493574+040	-.3741493574+040	20	-.3741493574+040	-.3741493574+040	-.3741493574+040	-.3741493574+040	20	-.3741493574+040	-.3741493574+040	-.3741493574+040
30	-.1276606558+041	.4740446990+039	30	.4740446990+039	.4740446990+039	.4740446990+039	30	.4740446990+039	.4740446990+039	.4740446990+039	.4740446990+039	30	.4740446990+039	.4740446990+039	.4740446990+039
31	.8170471734+038	.1273562544+041	31	.1273562544+041	.1273562544+041	.1273562544+041	31	.1273562544+041	.1273562544+041	.1273562544+041	.1273562544+041	31	.1273562544+041	.1273562544+041	.1273562544+041
40	.1173055362+041	.3815587668+040	40	.3815587668+040	.3815587668+040	.3815587668+040	40	.3815587668+040	.3815587668+040	.3815587668+040	.3815587668+040	40	.3815587668+040	.3815587668+040	.3815587668+040
41	.4271372581+040	-.1151931373+041	41	-.1151931373+041	-.1151931373+041	-.1151931373+041	41	-.1151931373+041	-.1151931373+041	-.1151931373+041	-.1151931373+041	41	-.1151931373+041	-.1151931373+041	-.1151931373+041
50	-.8506775186+040	.8169313683+040	50	.8169313683+040	.8169313683+040	.8169313683+040	50	.8169313683+040	.8169313683+040	.8169313683+040	.8169313683+040	50	.8169313683+040	.8169313683+040	.8169313683+040
51	-.8545376286+040	.8042809607+040	51	.8042809607+040	.8042809607+040	.8042809607+040	51	.8042809607+040	.8042809607+040	.8042809607+040	.8042809607+040	51	.8042809607+040	.8042809607+040	.8042809607+040
60	.2825145642+040	.1080234016+041	60	.1080234016+041	.1080234016+041	.1080234016+041	60	.1080234016+041	.1080234016+041	.1080234016+041	.1080234016+041	60	.1080234016+041	.1080234016+041	.1080234016+041
61	.1088750828+041	-.2154505039+040	61	-.2154505039+040	-.2154505039+040	-.2154505039+040	61	-.2154505039+040	-.2154505039+040	-.2154505039+040	-.2154505039+040	61	-.2154505039+040	-.2154505039+040	-.2154505039+040
70	.4010389143+040	-.9667631579+040	70	-.9667631579+040	-.9667631579+040	-.9667631579+040	70	-.9667631579+040	-.9667631579+040	-.9667631579+040	-.9667631579+040	70	-.9667631579+040	-.9667631579+040	-.9667631579+040
71	-.9296352534+040	-.4647418409+040	71	-.4647418409+040	-.4647418409+040	-.4647418409+040	71	-.4647418409+040	-.4647418409+040	-.4647418409+040	-.4647418409+040	71	-.4647418409+040	-.4647418409+040	-.4647418409+040
80	-.8832647952+040	.4043308516+040	80	.4043308516+040	.4043308516+040	.4043308516+040	80	.4043308516+040	.4043308516+040	.4043308516+040	.4043308516+040	80	.4043308516+040	.4043308516+040	.4043308516+040
81	.3295382704+040	.9055689110+040	81	.9055689110+040	.9055689110+040	.9055689110+040	81	.9055689110+040	.9055689110+040	.9055689110+040	.9055689110+040	81	.9055689110+040	.9055689110+040	.9055689110+040
90	.8156944962+040	.3626156874+040	90	.3626156874+040	.3626156874+040	.3626156874+040	90	.3626156874+040	.3626156874+040	.3626156874+040	.3626156874+040	90	.3626156874+040	.3626156874+040	.3626156874+040
91	.4307431968+040	-.7727158534+040	91	-.7727158534+040	-.7727158534+040	-.7727158534+040	91	-.7727158534+040	-.7727158534+040	-.7727158534+040	-.7727158534+040	91	-.7727158534+040	-.7727158534+040	-.7727158534+040
99	.7824709187+040	-.2460370107+040	99	-.2460370107+040	-.2460370107+040	-.2460370107+040	99	-.2460370107+040	-.2460370107+040	-.2460370107+040	-.2460370107+040	99	-.2460370107+040	-.2460370107+040	-.2460370107+040
100	-.1657029675+040	-.7950762278+040	100	-.7950762278+040	-.7950762278+040	-.7950762278+040	100	-.7950762278+040	-.7950762278+040	-.7950762278+040	-.7950762278+040	100	-.7950762278+040	-.7950762278+040	-.7950762278+040

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