




































MGLS Algorithm Sheet

ELS:












	OLL [FURUR'F' / FRUR'U'F']
	B'R2BU2B'RBU2B'R2B
	3-flip
	R'FRF2L'U'LF
1-flip	F'U2'FRUR'
	(U)F'U'F
	FR'F'R
2	
1	
(d)FRUR'F'	
3	F'UF2R'F'R
	(U)F'L'ULF; F'LF'L'F2
4	
	(U)F'L'U'LU'F
6	
5	F'U2F2R'F'R; (U2)F'L'U2LF
7	rUr'U2M'UM; RU2R'F'L'U2LF



"-" / "+" : DFR corner at FUR/RFU

	0	B'DBU'B'D'B ↔LD'L'ULDL' & FL'FR'FLR'
	1	RU2R'UR'U2RUR'UR2UR' ↔R2U'L'UR2U'L
	2	(U)RU'R'U'R'UR2R' ↔(U)F'UFUF'U2F
	3	F'LFRF'L'FR' ↔RB'R'F'RBR'F
	4	RU2R'U2R'U'R'UR'U2R2U'R' ↔(U2)RU2R'URU2R'U2RUR'
	5	RU2R'R'UR2U2R'U'R'UR'U2R' ↔(U)R'U2B'RBU2FRF'
	6	(U)F'U2FU'F'U'F ↔(U)RU2R'URUR'
	7	(U)R2U2'R2'U'RURU2R'UR' ↔U2RUR'UR2U2R'U'R'UR'UR'

	8	RU'R2'U2RUR'UR2UR' ↔(U)BU2B'U2F2UBU'B'F2
	9	RUR'U'RU'R'URUR' ↔U'RUR'U'RU'R'URUR'
	10	(U)F'U'FU2F'U'F ↔(U)RUR'U2RUR'
	11	R'URU'RU'R'U2RU'R2'UR' ↔RU'R'U2RU'R'UR2R2'UR'UR2
	12	(U)RU'R'U2RU'R' ↔(U)F'UFU2F'UF
	13	(U)RU2'R'URUR'URUR' ↔(U)F'U2FUF'U'FU'F'U'F
	14	(U2)RU'R'U2RU2'R'U2RU'R' ↔(U2)F'UFU2'F'U2FU2'F'UF
	15	RU'RU2R'U'RU'R2; F'UF'U2FUF'UF2
	16	RU'R'UR'U'RU'R'U2R2U'R' ↔(U)RB'U2BU2R'U'B'UB
	17	(U)F'U2FUF'B'UFU'B ↔(U)RU2R'U'RLU'R'UL'
	18	(U)F'U'B'UFU'B ↔(U)RULU'R'UL' & (U)LU'RUL'U'R'
	19	(U)R2UR'URU2R'UR' ↔U2RU'R'URU'R'URUR'
	20	R2UR'UR2U'R2UR'U2R2 ↔F2'U'FU'F2'UF2'U'FU2'F2'
	21	RU2'R2'UR'U2R'U'R'UR' ↔(U)RU'R'UR2'UR'URU2'R2'
	22	(U)RU2R'UF2L'U'LUF2 ↔(U)F'U2FU'R2BUB'U'R2
	23	(U)F'U2FU'F'UFUF'UF ↔R'FRF'RU2RB'R'BR'
	24	(U2)F'RU2R'U'RU'R'F ↔U2RU'R'U2RUR'URUR'
	25	(U)RUR'URUR'U'RU2R' ↔(U)F'U'FU'F'U'FU'U2'F
	26	(U)RU'R'U'RU'R'URU2R' ↔(U)F'UFUF'UFU'F'U2'F

"O" : DFR corner at URF




Cube	Algorithm	# [mirror #]
	[R'FRF]x3; [FR'FR]x3 & R2UR2UR2U2R2	1 [18]
0 [0]	(U2)L'UR2U'LUR2'	
2 [9]	(U)RU2'R'URU'RUR'URU2'R2'	
	(U2)RU'R'URUR'URUR'	3 [6]
	RU'R2U'R'UR'U2R2UR'	
4 [24]	(U)RUR'U'RU2'R'URU'R'	5 [15]
6 [3]	(U)F'UFU'F'UFU2'F'U2F	
	(U)RU'R'URU'R'URU'R'	7 [21]
	U2RU'R'U'RU'R'U2RUR'	
8 [12]	URU2R'U'RU2R'URU2R'	9 [2]
10 [20]	(U)RUR'URU'R'U2RUR'	
	L'R2'UR2U'LU2R2U2R2	11 [11]
	(U2)F'RUR'URU2R'F	13 [26]
12 [8]	(U2)RU2R'U2RU'R'URU'R'	
14 [17]	L'U'LU'L'U'R2U'LUR2	
	(U)F'U'FUF'U2FU'F'UF	15 [5]
	F'UFU2'F'U2FU2'F'U'F	17 [14]
16 [23]	BUB'UBUF2UB'U'F2	
18 [1]	(U)RUR'U'RUR'URU'R'	
	(U)RUR'U'RU2'R'U2RU2R'	19 [19]
	(U)F'U'FU'F'UFU2'F'U'F	21 [7]
20 [10]	(U)F'UFU'F'UFU'F'UF	
22 [25]	URUR'U'RU2R'U2RU2R' &RU'R'U2RU'R'URU'R'U2RU'R'	

	RUR'U2RU2R'U2RUR'	23 [16]
	FUF2UF'UFU2F2U'F	25 [22]
24 [4]	URUR'U'RU2R'U2RU2R' &RUR'URU2R'U'RU'R'U2RU'R'	
26 [13]	(U)RUR'U'RU'R'U2RU2R'	

"I" : DFR at FRD/RDF

	RF2R'F'RF'R'L'F2LFL'FL ↔L'F'LF'L'F2RLFR'FRF2R'	
	RUR'U'RU2'R'U'RU'R' ↔RU'R'URU2'R'URU'R'	
	R2U2R'U'RU'R'U2R' ↔F2U2FUF'UFU2F	
	(U)RU2R'U2RU2R'U'RU'R' ↔(U)RU'R'URU2R'U2RU2R'	
	(U)RU'R'U'RU'R'U'RU2R' ↔U'F'UFUF'U'FU'F'U2F	
	(U2)F'U2FU'F'UFU'F'U'F ↔(U2)RU2'R'URU'R'URUR'	
	(RU'R'U2)*4 [without final U2] ↔(RU2'R'U2RU'R'U)*2	
	(F'UFU2'F'U2FU)*2 ↔(RU'R'U2RU2'R'U)*2	

DRF corner in place (COLL)

	RUR'URU2R' &RU'L'UR'UL' &FU2FUFUF ↔F'U'FU'F'U2F	Sune
Double-Sune	RUR'URU'R'URU2R' ↔RU2R'URUR'URUR'	
	RU2R2'UR2U'R2'U2R' &R'ULU'RUL'ULU'L' ↔FU2F2'UF2UF2'U2F'	Pi (π)
Triple-Sune	B'RBL'B'R'BL & RB'R'FRBR'F'	
	F'L'BLFL'B'L & RBR'FRB'R'F'	Chameleon
Headlights	RU'LU'R'UL'U2RU'R' &R2DR'U2RD'R'U2R'	

Idea: Shotaro Makisumi
 Algs: Lucas Garron
 This alg sheet may be freely distributed.
 (VERSION 3.0)