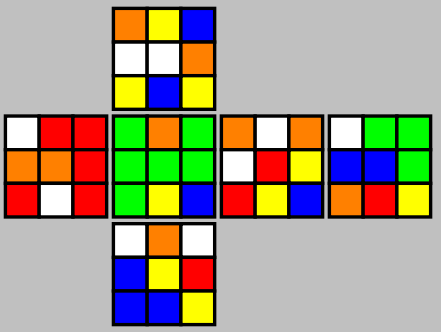
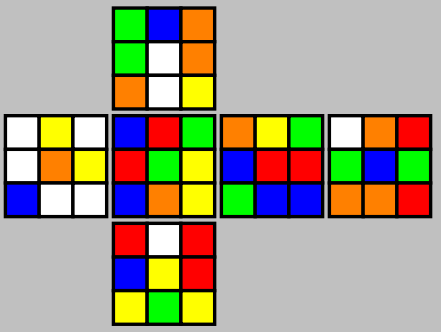
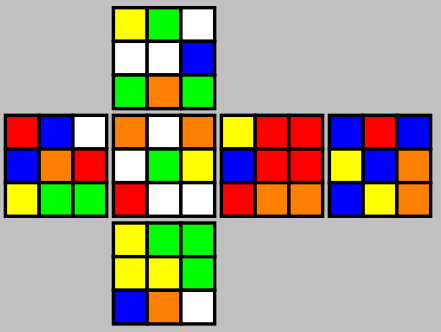
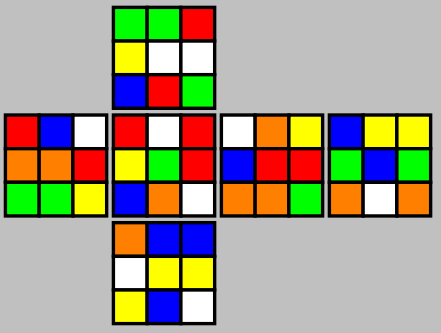
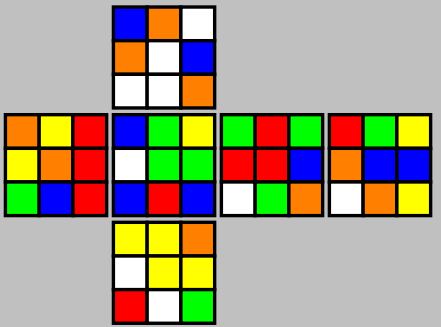
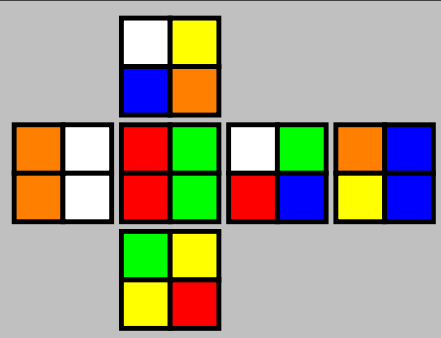
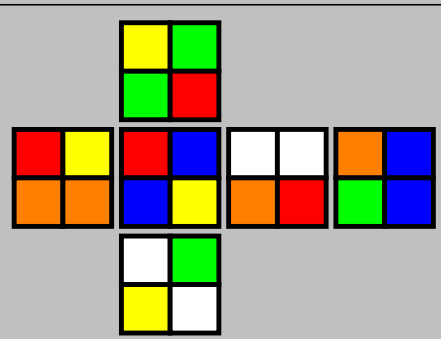
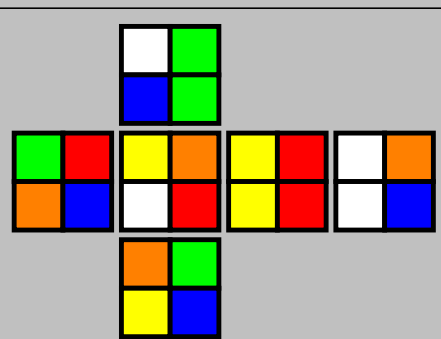
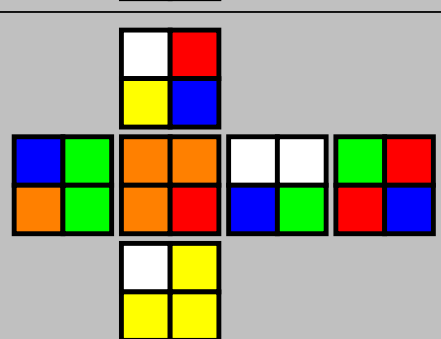
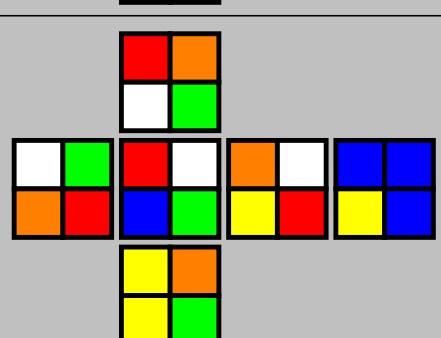
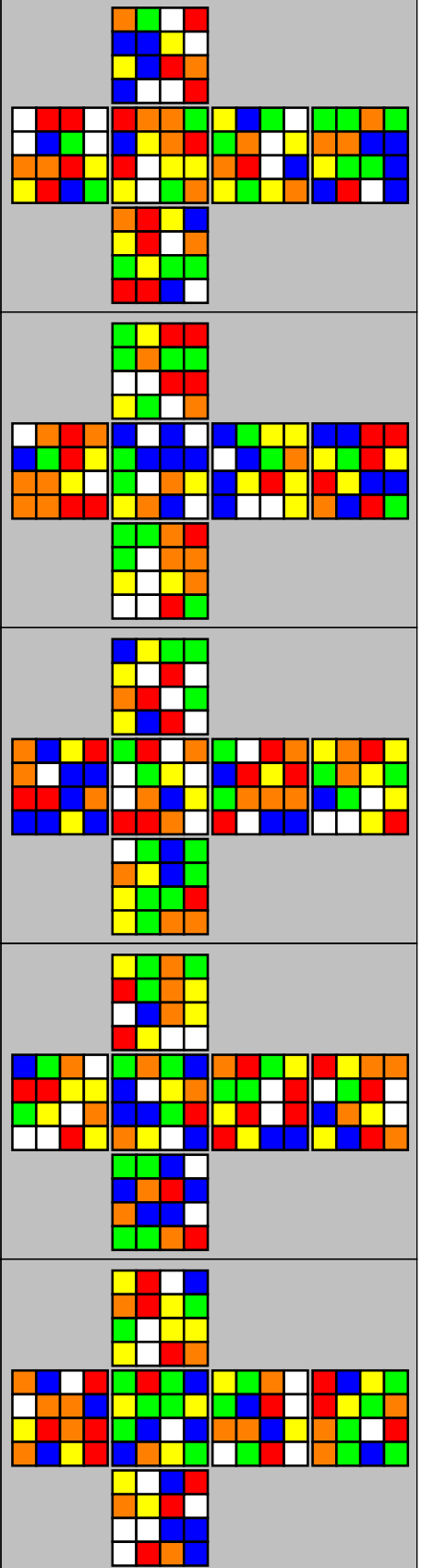


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2.	R2 B2 L2 U R2 B2 D L2 B' D2 F2 L' F2 R D R' F' D B' U	
3.	F2 D2 F2 R2 B2 L2 U2 R2 D L F U2 R' D' L2 B2 L' U' R' U	
4.	R2 B' R2 B L2 B2 R2 U2 F L D' L' F' R2 D' R' B2 L D U	
5.	R F2 U2 L' F' R2 D' F R2 U F B L2 F' D2 F' U2 L2 U2 D2	

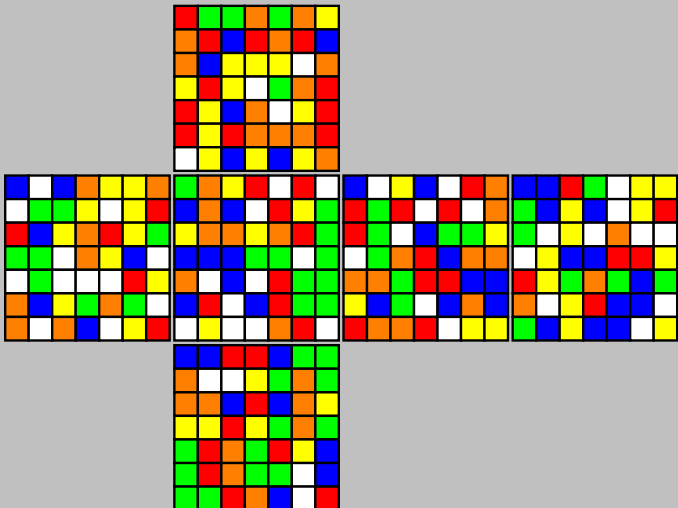
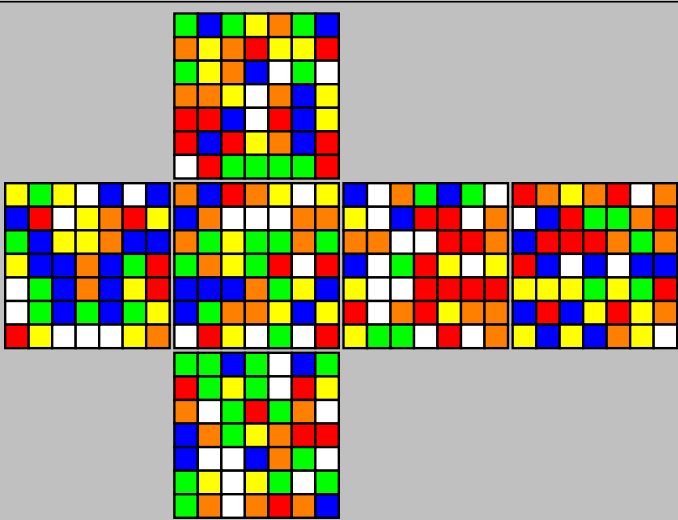
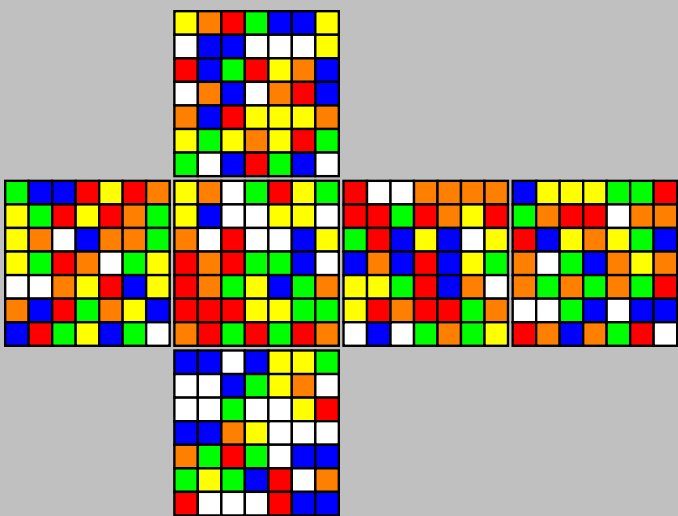
1.	$R' F' U R U' R' U' F U' R U$	
2.	$U2 F2 R U R' F' U2 F R2 U2 R'$	
3.	$R' F' U2 R U2 R F' R' U' R' U'$	
4.	$U' R' F U' R2 F U' R' U' F U'$	
5.	$R' U R U2 R' U' F' U' R' F R$	

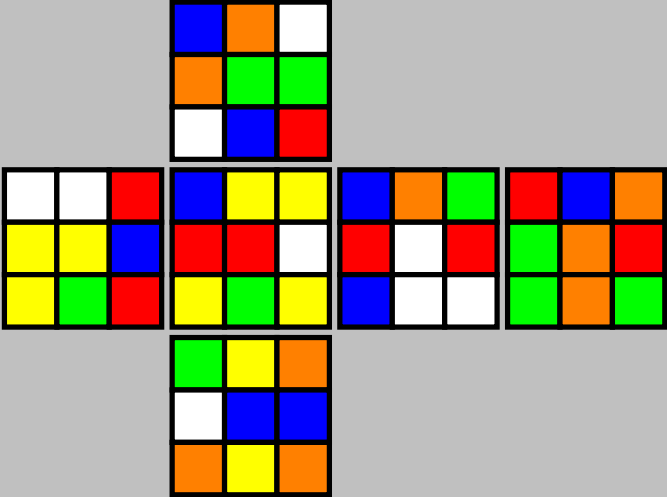
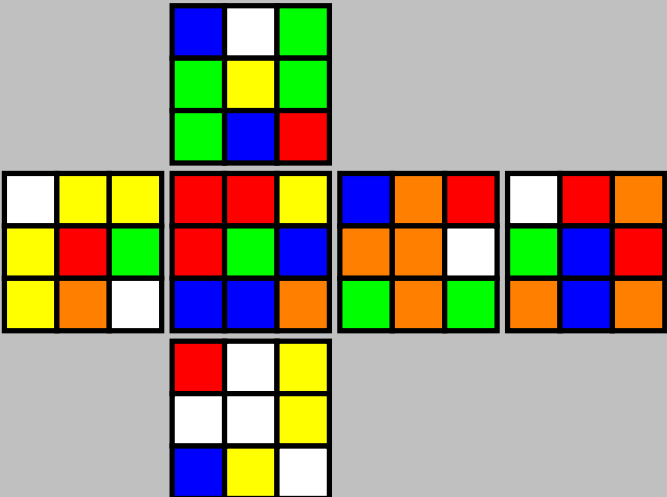
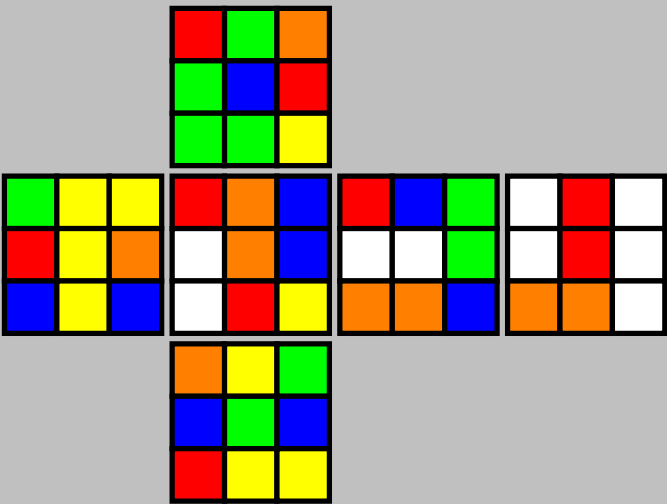
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	U	F'	Rw'	F	U2	Rw'	F2
	Fw	Rw'	F'	R	Fw2	Uw'	R2
	U	Rw	F'	L'	Fw		
2.	Uw2	R	L'	U	B'	Uw'	D
	R2	L2	Rw'	Fw'	D2	L'	Uw
	Fw	B2	F2	L	F'	Uw2	Fw2
	Rw2	B'	Fw'	U	Rw'	F2	Fw
	L	Fw	U	D'	Rw'	R	F
	D	U	L	Fw2	D		
3.	F	L'	F2	L2	D'	L'	Uw
	F2	Fw2	R2	F	Uw'	D'	U'
	B2	Rw'	B2	R2	U	F	Fw2
	Uw2	L'	U2	B	Fw	L'	R
	D	Rw	R2	L2	D	Fw	L2
	U'	D	Rw2	U	D		
4.	F'	D2	Fw	U	Rw2	B2	D
	Uw2	Fw2	D2	Rw	L'	D2	U2
	B	F	D2	R	B'	L'	U2
	Fw	Uw'	Fw'	L2	R'	F2	Uw'
	Rw2	Uw2	B2	R	F'	D2	R'
	F	L	Fw'	U'	Fw		
5.	Uw	L	Fw2	F	B2	Rw'	D2
	L'	D	R2	F'	L	Rw'	U'
	Fw'	U'	F'	D	Fw'	Uw2	Fw
	R'	Rw	D2	Fw'	B2	Uw2	F'
	R	Fw	R'	U2	B'	F	Fw'
	L'	Rw2	Uw	D2	Rw'		

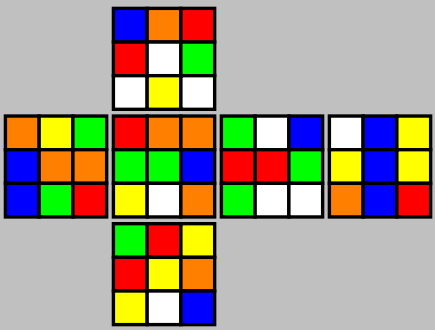
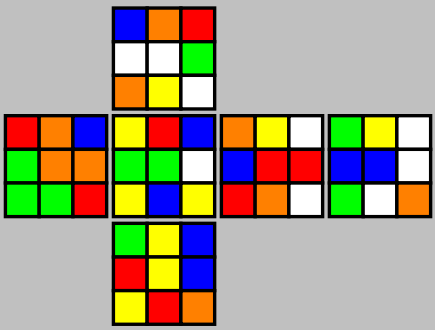
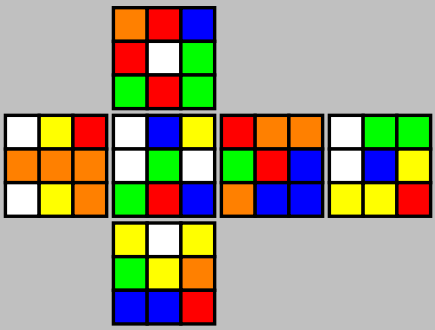
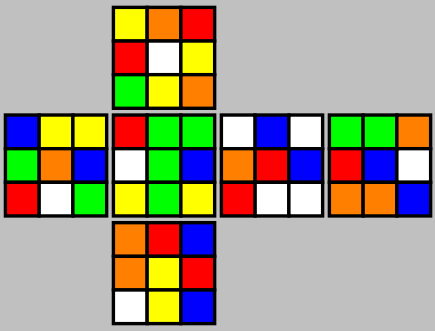
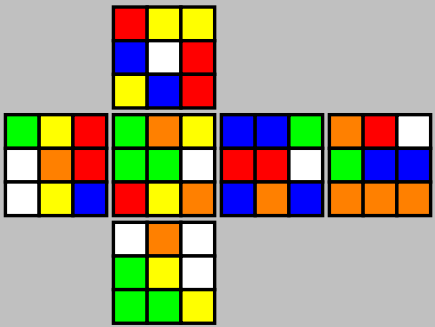


1.	U' Fw Bw' L B' Fw2 U' Bw' F R' U' Bw' B' R2 F' Rw' U' B D' L' D Uw2 U' F L' Dw2 Fw Rw2 U Bw Dw' F' L' R B2 Rw' U2 R Rw2 Uw2 B2 R2 L Lw D L' Lw2 F2 Bw' L U2 B' Rw' F D' F2 L' Lw U2 Lw	
2.	Bw' L' R' Dw2 D2 L' D B' Uw2 B2 Rw' Fw Lw' F' D R2 F' Dw2 L2 Uw Lw2 Uw' D L' Uw2 U Rw' D2 B2 U Fw2 D2 Rw R2 Dw2 F2 R2 Dw2 L U2 Bw' Rw2 Bw Uw' Dw2 Lw2 U F' B2 Uw' Dw2 B2 D' R' F' Lw U Rw' Uw B	
3.	R' Uw' Lw2 L F' D2 F Lw B Fw' L' Uw2 Bw2 Lw B' Lw' B D' F Uw2 Fw' L B2 D Rw2 Dw' F2 Fw B Rw Lw2 R Fw Bw2 L B Dw L D' U' R2 Dw2 D' Bw R2 Lw2 L' Uw Dw D U' Bw2 F' Lw2 F L' D' Lw2 Rw' L	
4.	B Lw' D Bw' R2 Dw2 F' Rw' U' F' Dw F2 L D2 L2 Rw2 R2 F' L R' F2 Rw Dw2 F B' Uw' R' Fw U2 Rw' U D Fw2 Lw Rw' F Uw Rw F Bw Dw2 Lw Bw2 D2 B' L2 Bw2 F' Lw2 Bw L2 F' R' U Uw L2 Fw2 Dw' R Dw	
5.	F Rw' Uw2 Fw2 Uw Bw' F Lw2 Rw U' F Lw L' B Rw2 U2 D2 Rw2 F' Rw2 B R B Rw Fw U2 Fw Bw' F Rw2 Fw2 Rw U' F Bw Lw2 Bw' R' F2 U2 Rw Lw2 F' D Uw2 Bw' U2 Lw Uw2 Dw R Uw' Lw Rw Bw U2 B Fw' Uw' F	

1.	U'	3Fw	3Rw2	3Uw2	3Rw	Uw'
	Dw'	3Fw'	Uw'	L2	Lw2	Rw2
	R'	Fw'	Lw	L'	D	Dw
	L2	D	Lw2	R	B2	F2
	Uw	Dw	F	3Rw	L	Rw2
	3Uw'	3Rw'	D2	Uw	Lw	U2
	Bw'	D	3Fw'	Fw	Rw2	L'
	Uw2	L2	Uw2	3Fw2	L	D
	Uw2	Dw'	3Rw'	R'	Rw2	Dw2
	Bw'	Fw2	Dw'	Bw'	3Uw'	Lw
	U2	F'	3Fw'	D2	Rw2	Dw'
	B2	3Rw2	Dw'	R2	B	F'
	D	3Fw'	B'	Rw'	L'	Dw'
	3Rw2	Lw2				
2.	D	3Uw	U2	Rw'	Lw'	B'
	Fw	Lw'	F2	Dw2	Uw	Fw'
	Lw'	D'	3Fw'	U2	Uw'	Fw'
	3Fw'	Uw	D'	U2	Rw	Uw
	D	F2	Rw	U'	Uw'	R2
	3Fw'	Rw2	3Rw'	D'	R'	Bw'
	Rw2	3Uw2	R2	Uw2	D'	3Fw
	3Uw'	U2	D	R2	Rw	Uw'
	3Rw2	Fw'	Uw'	Fw	F2	3Fw'
	3Uw2	Uw	R	B2	Rw2	Dw'
	D	Lw2	Fw'	3Rw'	Bw2	Rw'
	3Uw'	Dw2	B'	L2	F'	L'
	R'	Dw'	F2	B	3Rw2	Fw2
	3Rw2	U2				
3.	Rw	3Uw2	R2	Rw2	3Rw	U2
	F	3Rw	B	Dw2	Uw'	U
	3Rw'	Uw'	D'	Fw'	Bw'	D'
	R'	Uw'	B2	R	3Uw	Rw
	3Uw2	Lw'	B2	D	L'	B
	Fw	Rw2	3Rw2	Uw2	U	Fw2
	U	3Uw	3Rw2	D'	Dw	3Fw
	D'	Rw'	Dw	3Fw2	F	U
	3Fw'	U'	Bw'	3Fw2	3Rw	D'
	R2	Lw	F	D'	Fw	3Uw
	L'	U	Rw	F	3Rw2	Dw
	B'	Bw'	L2	Lw2	R'	3Rw
	U'	B'	Uw	D'	U'	R'
	Dw2	Rw'				

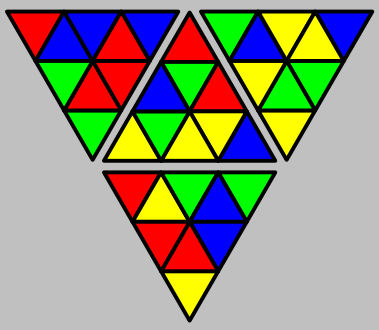
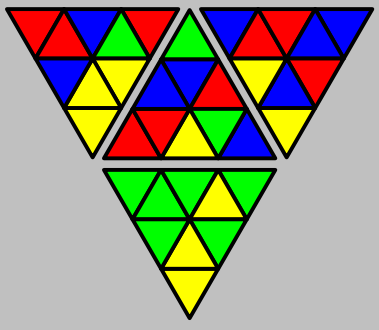
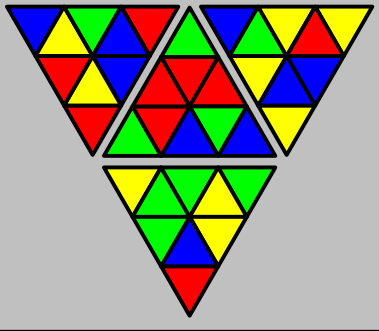
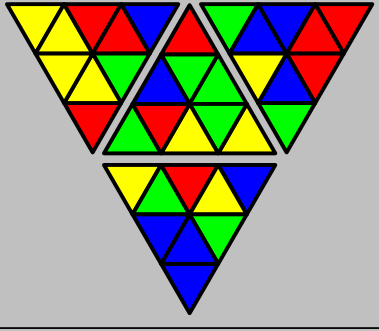
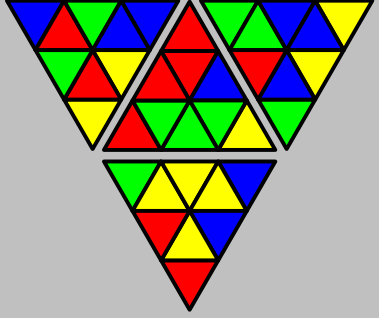
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2.	<div>Fw' R' B D' F2 3Rw' R2</div> <div>Fw2 Lw2 Fw2 3Rw2 3Bw 3Uw 3Dw'</div> <div>Fw 3Lw2 L' Uw2 3Bw2 B 3Uw'</div> <div>B Uw' D Rw2 Dw' B Lw</div> <div>Bw' U2 3Fw2 L Rw' 3Lw2 3Fw2</div> <div>Bw D 3Dw2 3Lw' 3Rw2 F' B2</div> <div>3Fw L 3Dw' R Lw2 U2 3Rw'</div> <div>Dw 3Lw2 3Dw' Fw' L2 3Dw Dw2</div> <div>3Fw2 Dw2 3Dw2 B Rw 3Uw Bw</div> <div>F Uw2 3Fw' Uw' Rw 3Uw Lw</div> <div>B' 3Dw 3Rw' 3Bw' 3Lw Uw Rw2</div> <div>Dw 3Uw' F' R2 B2 F 3Fw</div> <div>3Rw2 Lw L' 3Dw' F U2 Dw2</div> <div>B' R Lw F2 3Lw F2 Dw</div> <div>Lw2 F2</div>	
3.	<div>L2 3Lw2 F Fw2 U' F2 3Bw'</div> <div>3Uw' 3Dw' Uw L2 3Fw2 B 3Lw2</div> <div>3Bw' U' 3Rw' Dw U D2 3Lw'</div> <div>R' Bw2 3Uw Rw2 D' B Bw2</div> <div>3Bw 3Uw' U' B2 D U' F2</div> <div>D2 3Lw Lw2 3Uw2 3Lw Rw' Lw</div> <div>Uw' Dw 3Uw 3Bw' 3Rw2 3Uw B2</div> <div>U' D' 3Lw L' Fw2 Uw Bw</div> <div>Fw' Dw D Bw2 Rw' 3Rw2 3Dw2</div> <div>Lw2 Uw' 3Fw' 3Uw' Uw2 Bw' 3Lw'</div> <div>3Uw2 R2 3Rw2 D2 Fw' Uw F'</div> <div>3Bw2 Dw2 L2 B' Fw2 F' L'</div> <div>Dw2 F 3Bw' 3Rw L2 U2 B'</div> <div>Dw Lw F 3Dw L Uw F</div> <div>3Lw2 F'</div>	

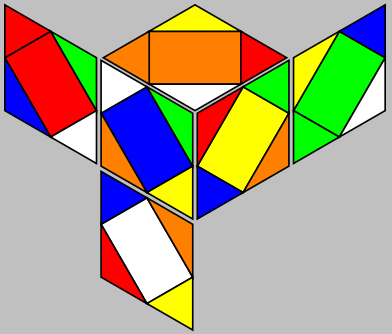
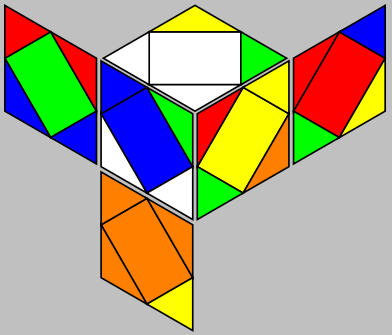
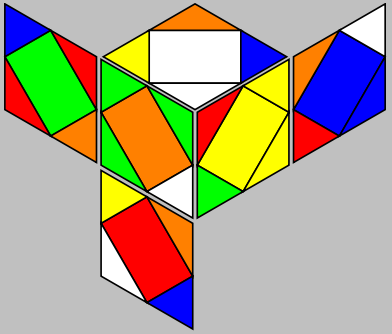
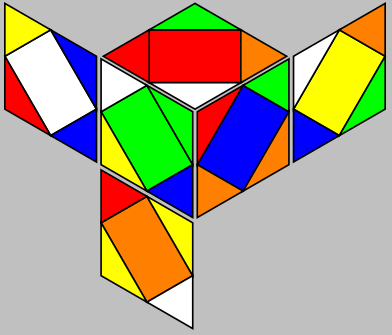
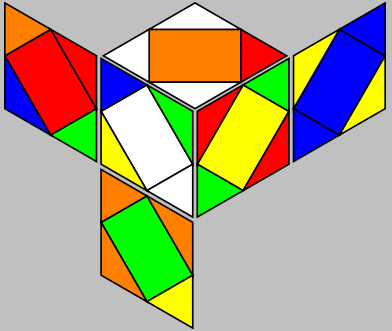
1.	<p>L2 B2 D' R2 D' U</p> <p>L2 D2 R D U2 F2</p> <p>L2 R' F L' B' U</p> <p>F Rw Uw</p>	
2.	<p>L' F2 R D2</p> <p>F2 L D2 L2</p> <p>R' D' L R2</p> <p>U L2 F D</p> <p>U' R' F2 Rw2</p> <p>Uw2</p>	
3.	<p>F2 U2 L2 B2</p> <p>D2 B L2 F2</p> <p>D2 R2 D L2</p> <p>R F L' F</p> <p>L2 B' D2 Rw'</p> <p>Uw'</p>	

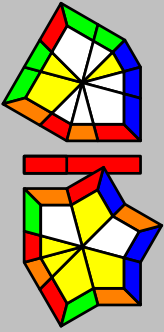
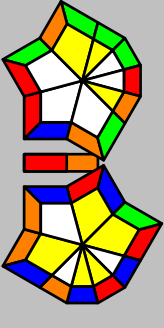
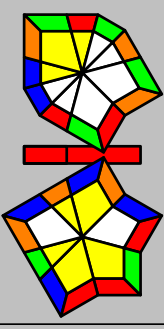
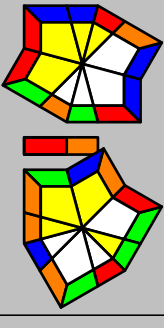
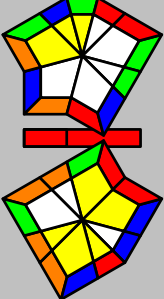
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2.	D' F' L' U F' L U2 D L B L2 U2 B' U2 F' R2 F2 D2 B' L2	
3.	F2 U2 B2 U L2 B2 D F2 D L2 U' F L2 F2 D' B R D' L' D'	
4.	D2 F' D2 B D F' U B D F' R D2 F2 B2 R U2 B2 L2 D2 F2	
5.	R2 L' D L2 D B' L D2 F U R2 U' R2 D L2 U B2 R2 F2	

2019-06-25

pyram
Scrambles for 2019-06-25

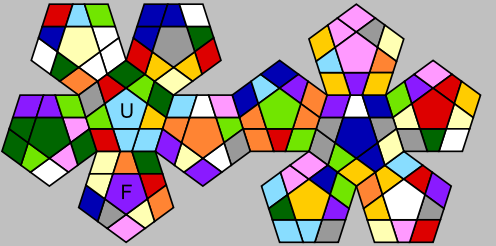
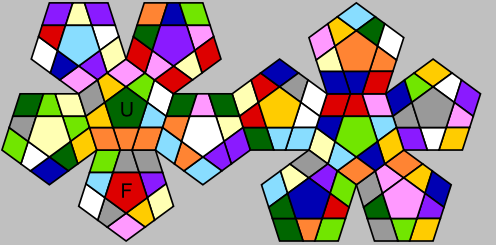
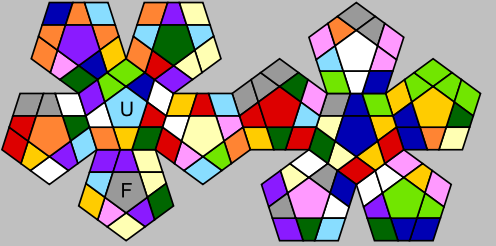
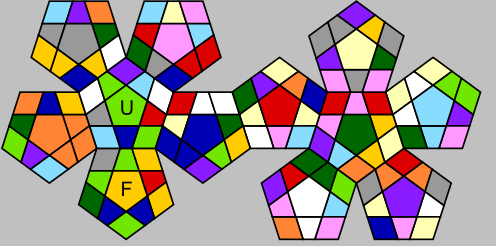
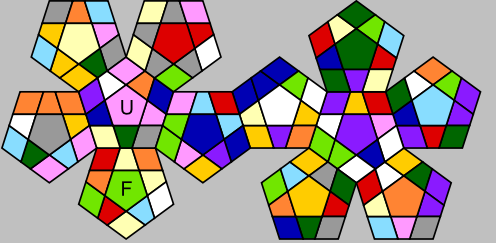
1.	U' L B' U R B' L' R' U' R U u' l' r b'	
2.	B L U' R L U' B' L' B' R' B u' r'	
3.	R L U' L U' B' U' L U' L R' u l' r' b'	
4.	B' L B' L B' L' B' U L U' L' u' l' r	
5.	B L' U' R B L' U' R' U B L' l r b	

1.	$L U L B R B U R' L R' B'$	
2.	$U R B R U' B R L' B' L U'$	
3.	$B L R' L' B' L' B' L U' B U'$	
4.	$B R U' B U' L' R' L B' U' B$	
5.	$B R U B R B U' R L' R L'$	

1.	$(0, -1) / (-5, 4) / (-3, 0) /$ $(3, 0) / (3, -3) / (3, 0) /$ $(-1, 0) / (-3, 0) / (-2, -1) /$ $(4, 0) / (6, -2) / (0, -4) /$ $(0, -2)$	
2.	$(4, 0) / (-3, -3) / (2, 5) /$ $(3, 0) / (3, 0) / (-2, -2) /$ $(0, -4) / (6, 0) / (3, -3) /$ $(-3, 0) / (2, -2) / (2, 0)$	
3.	$(-5, 0) / (-4, 2) / (1, -5) /$ $(3, 0) / (5, -4) / (4, -3) /$ $(-3, 0) / (0, -2) / (0, -3) /$ $(5, 0) / (4, 0) / (2, -4) / (6, 0)$	
4.	$(3, -4) / (1, 4) / (-3, 0) /$ $(5, -1) / (6, 0) / (-3, 0) /$ $(-2, 0) / (-3, -3) / (-5, 0) /$ $(-2, -4) / (4, -2) / (-3, -2)$	
5.	$(-3, -4) / (0, -3) / (-5, -5) /$ $(-4, -4) / (3, 0) / (-3, 0) /$ $(1, 0) / (-3, 0) / (5, -3) /$ $(1, 0) / (-4, 0) / (4, 0) /$ $(-2, 0)$	

2019-06-25

minx
Scrambles for 2019-06-25

1.	R-- D-- R++ D++ R++ D-- R++ D++ R++ D-- U' R-- D++ R-- D++ R-- D++ R-- D-- R-- D-- U' R-- D++ R++ D-- R++ D++ R-- D-- R-- D++ U R++ D++ R++ D-- R-- D++ R++ D-- R++ D-- U' R++ D-- R-- D++ R++ D-- R++ D-- R-- D-- U' R++ D-- R-- D-- R-- D-- R++ D++ R++ D-- U' R-- D-- R-- D-- R-- D++ R-- D-- R-- D++ U	
2.	R++ D-- R++ D++ R++ D-- R-- D++ R++ D++ U R-- D-- R-- D-- R-- D-- R-- D++ R-- D-- U' R++ D++ R++ D++ R++ D++ R++ D++ R-- D++ U R++ D-- R-- D-- R-- D++ R++ D-- R++ D-- U' R-- D++ R-- D-- R++ D-- R-- D++ R-- D-- U' R-- D++ R-- D++ R-- D-- R++ D++ R-- D-- U' R++ D++ R-- D-- R++ D-- R++ D++ R++ D++ U	
3.	R++ D-- R++ D-- R++ D++ R-- D-- R-- D++ U R++ D-- R-- D-- R-- D++ R++ D-- R++ D-- U' R-- D++ R++ D++ R-- D-- R++ D-- R-- D++ U R-- D-- R++ D-- R++ D++ R-- D++ R++ D-- U' R++ D++ R-- D-- R-- D++ R++ D++ R++ D-- U' R++ D++ R-- D++ R++ D-- R++ D-- R++ D-- U' R++ D-- R-- D++ R++ D++ R++ D-- R-- D-- U'	
4.	R++ D-- R-- D-- R++ D-- R-- D-- R++ D++ U R-- D-- R++ D-- R-- D++ R++ D++ R++ D-- U' R-- D++ R++ D-- R++ D-- R-- D++ R-- D++ U R++ D-- R-- D++ R-- D-- R++ D-- R++ D-- U' R-- D++ R-- D++ R++ D++ R-- D++ R-- D-- U' R-- D-- R-- D-- R++ D++ R++ D++ R-- D-- U' R++ D++ R-- D++ R++ D++ R++ D-- R++ D++ U	
5.	R-- D++ R++ D++ R-- D-- R-- D-- R++ D-- U' R-- D++ R-- D-- R++ D++ R++ D++ R++ D++ U R-- D++ R++ D++ R-- D++ R++ D++ R++ D-- U' R-- D-- R-- D-- R++ D-- R++ D-- R-- D-- U' R-- D-- R-- D-- R++ D-- R++ D++ R++ D-- U' R++ D++ R++ D-- R-- D++ R-- D++ R-- D++ U R++ D-- R++ D++ R-- D++ R-- D-- R++ D-- U'	

2019-06-25

 clock
 Scrambles for 2019-06-25

1.	UR2+ DR4- DL5+ UL1- U2+ R4+ D5+ L3- ALL0+ y2 U1+ R1+ D4+ L4+ ALL5+	
2.	UR1- DR4- DL4+ UL5+ U4+ R5+ D4- L1- ALL2- y2 U4- R2+ D2+ L3+ ALL3+ UR DL	
3.	UR4+ DR5- DL5- UL4+ U3- R0+ D1+ L1- ALL5+ y2 U6+ R0+ D2+ L1- ALL4- DR DL	
4.	UR5+ DR1- DL0+ UL4- U3+ R0+ D1+ L5+ ALL4+ y2 U2+ R2- D4+ L1+ ALL3- UR UL	
5.	UR1+ DR0+ DL3- UL1- U2+ R5- D6+ L3- ALL5- y2 U5- R0+ D1+ L5+ ALL3- UR DL	

Fewest Moves

- > You have 60 minutes to find and write a solution.
- > Write 1 move per bar. To delete a move, clearly blacken it.
- > Your solution must not be directly derived from any part of the scrambling algorithm.
- > Your solution must be at most 80 moves, including rotations.
- > Your result will be counted in OBTM.
- > Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves

Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2

Rotations

Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

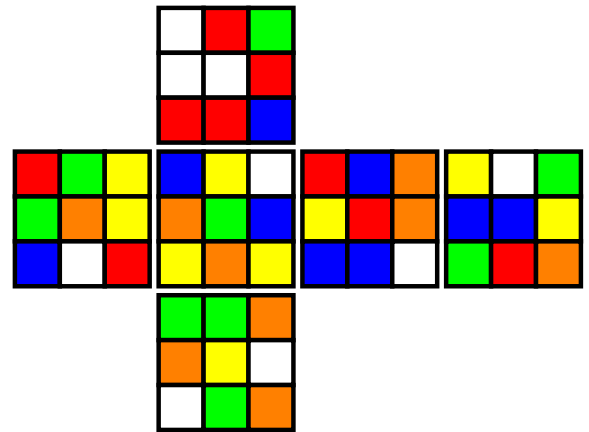
Scrambles for 2019-06-25
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F L2 U2 R2 F' L2 B' L2 B2 U2 L2 B R B2 R' F D U2 L R' D2 U R' U' F

[illegible]

Fewest Moves

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- > Write 1 move per bar. To delete a move, clearly blacken it.
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Rotations

Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

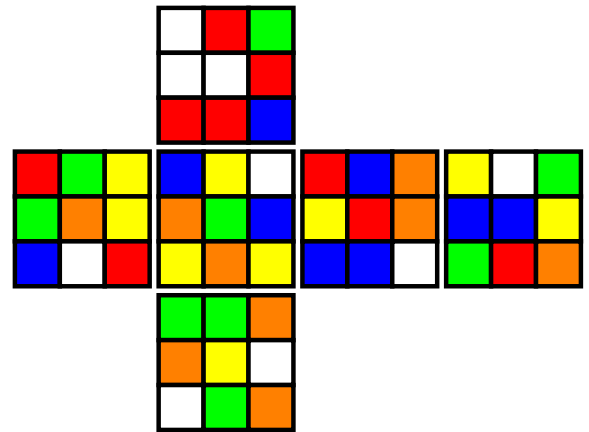
Scrambles for 2019-06-25
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



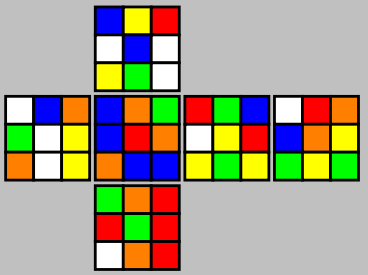
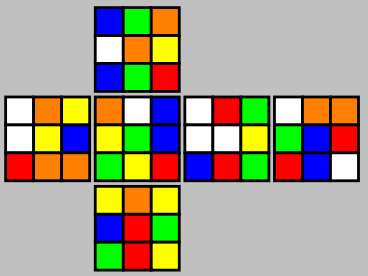
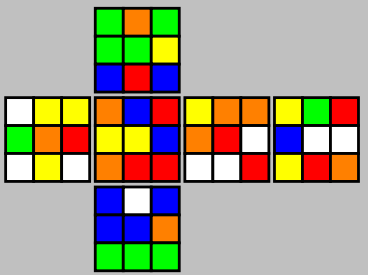
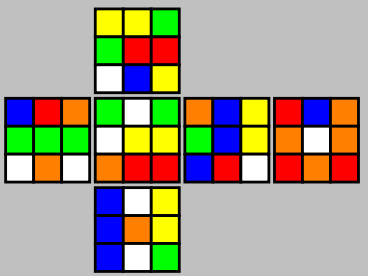
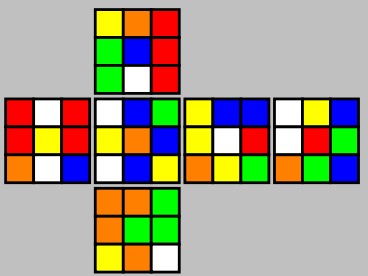
Scramble: R' U' F L2 U2 R2 F' L2 B' L2 B2 U2 L2 B R B2 R' F D U2 L R' D2 U R' U' F

[illegible]

1.	B' R $D2$ $R2$ D' $R2$ $F2$ R' F' L' D' $B2$ L $B2$ $R2$ $U2$ $D2$ L $D2$	
2.	D $R2$ U $F2$ D $L2$ $B2$ $L2$ $F2$ L $D2$ R' $F2$ U F' $L2$ D' R' $D2$ $U2$	
3.	F' $L2$ B' $R2$ B $R2$ $U2$ $R2$ F $D2$ $U2$ R $U2$ B D' U' B' L $B2$ R' $D2$	
4.	$D2$ R' $F2$ L' $D2$ L $D2$ $L2$ F $L2$ D' B' D B' R $B2$ U L $B2$	
5.	$B2$ $D2$ $L2$ $B2$ D $B2$ $L2$ $R2$ $U2$ L' D $B2$ $L2$ U' F R' $B2$ $R2$ B'	

1.	L2	B	D2	L2	B
	R2	F'	L2	F	R2
	L'	D2	L'	F	U
	F	D	U	R2	L2
	Rw2	Uw2	L2	U	F
	R2	Fw2	Rw2	F'	U
	B2	Rw	B'	L2	D
	R2	B	Fw	R2	Fw
	F	Rw'	Uw	R'	D2
	z'	y2			
2.	U'	D2	F2	R2	D
	B	U	F'	D2	L'
	U'	D	L2	R2	B2
	D	L2	D'	L2	D2
	Fw2	R2	L	D'	Rw2
	Uw2	D	L'	Fw2	R2
	U	Fw	F	L'	D
	Fw	B2	R'	Rw'	Uw'
	R2	F	Rw2	Fw2	z
	y				
3.	U2	R2	D2	R	D2
	U	R'	U'	F'	D2
	R2	U	F2	R2	D
	U	B2	U	Rw2	B
	R2	Fw2	R'	Uw2	F'
	R	Uw2	U2	R	Fw2
	R	Uw	D'	L2	Uw
	F2	B2	Fw	Rw	D2
	Rw2	B'	U'	L'	z'
	y2				

1.	<table><tr><td>Rw2</td><td>R</td><td>Lw2</td><td>L2</td><td>Uw2</td><td>Bw'</td></tr><tr><td>L2</td><td>U2</td><td>R'</td><td>Lw</td><td>Bw'</td><td>U2</td></tr><tr><td>R</td><td>F2</td><td>D</td><td>U</td><td>Uw'</td><td>Rw'</td></tr><tr><td>L2</td><td>Lw2</td><td>Uw</td><td>Lw2</td><td>U2</td><td>R'</td></tr><tr><td>B</td><td>F2</td><td>Fw2</td><td>R2</td><td>Rw2</td><td>Dw</td></tr><tr><td>Fw'</td><td>Dw2</td><td>R</td><td>U2</td><td>Fw</td><td>F</td></tr><tr><td>Lw2</td><td>Uw'</td><td>F2</td><td>Uw</td><td>Dw</td><td>F</td></tr><tr><td>Bw</td><td>R2</td><td>Bw'</td><td>U</td><td>Fw</td><td>Rw2</td></tr><tr><td>B2</td><td>Rw'</td><td>D2</td><td>Dw2</td><td>R'</td><td>B'</td></tr><tr><td>Fw2</td><td>Uw2</td><td>U'</td><td>D2</td><td>Lw</td><td>Fw'</td></tr></table>	Rw2	R	Lw2	L2	Uw2	Bw'	L2	U2	R'	Lw	Bw'	U2	R	F2	D	U	Uw'	Rw'	L2	Lw2	Uw	Lw2	U2	R'	B	F2	Fw2	R2	Rw2	Dw	Fw'	Dw2	R	U2	Fw	F	Lw2	Uw'	F2	Uw	Dw	F	Bw	R2	Bw'	U	Fw	Rw2	B2	Rw'	D2	Dw2	R'	B'	Fw2	Uw2	U'	D2	Lw	Fw'						
Rw2	R	Lw2	L2	Uw2	Bw'																																																														
L2	U2	R'	Lw	Bw'	U2																																																														
R	F2	D	U	Uw'	Rw'																																																														
L2	Lw2	Uw	Lw2	U2	R'																																																														
B	F2	Fw2	R2	Rw2	Dw																																																														
Fw'	Dw2	R	U2	Fw	F																																																														
Lw2	Uw'	F2	Uw	Dw	F																																																														
Bw	R2	Bw'	U	Fw	Rw2																																																														
B2	Rw'	D2	Dw2	R'	B'																																																														
Fw2	Uw2	U'	D2	Lw	Fw'																																																														
2.	<table><tr><td>L'</td><td>Fw2</td><td>Uw</td><td>D'</td><td>Lw2</td></tr><tr><td>Uw'</td><td>R'</td><td>B2</td><td>F2</td><td>Dw2</td></tr><tr><td>Lw</td><td>B2</td><td>L2</td><td>B2</td><td>Dw</td></tr><tr><td>L2</td><td>Dw</td><td>U</td><td>Uw</td><td>Rw</td></tr><tr><td>Uw'</td><td>U'</td><td>Rw</td><td>Fw2</td><td>R2</td></tr><tr><td>D</td><td>Dw'</td><td>B2</td><td>Fw2</td><td>Lw</td></tr><tr><td>Fw'</td><td>Lw2</td><td>Bw2</td><td>U</td><td>Dw</td></tr><tr><td>B2</td><td>Uw2</td><td>R2</td><td>B'</td><td>Fw</td></tr><tr><td>Uw</td><td>Dw2</td><td>Rw</td><td>Bw2</td><td>F2</td></tr><tr><td>L2</td><td>Bw</td><td>Lw'</td><td>Uw</td><td>U'</td></tr><tr><td>B'</td><td>Uw</td><td>B'</td><td>Dw'</td><td>Uw</td></tr><tr><td>R</td><td>F2</td><td>D</td><td>Uw'</td><td>Rw'</td></tr><tr><td>3Fw</td><td>3Uw2</td><td></td><td></td><td></td></tr></table>	L'	Fw2	Uw	D'	Lw2	Uw'	R'	B2	F2	Dw2	Lw	B2	L2	B2	Dw	L2	Dw	U	Uw	Rw	Uw'	U'	Rw	Fw2	R2	D	Dw'	B2	Fw2	Lw	Fw'	Lw2	Bw2	U	Dw	B2	Uw2	R2	B'	Fw	Uw	Dw2	Rw	Bw2	F2	L2	Bw	Lw'	Uw	U'	B'	Uw	B'	Dw'	Uw	R	F2	D	Uw'	Rw'	3Fw	3Uw2				
L'	Fw2	Uw	D'	Lw2																																																															
Uw'	R'	B2	F2	Dw2																																																															
Lw	B2	L2	B2	Dw																																																															
L2	Dw	U	Uw	Rw																																																															
Uw'	U'	Rw	Fw2	R2																																																															
D	Dw'	B2	Fw2	Lw																																																															
Fw'	Lw2	Bw2	U	Dw																																																															
B2	Uw2	R2	B'	Fw																																																															
Uw	Dw2	Rw	Bw2	F2																																																															
L2	Bw	Lw'	Uw	U'																																																															
B'	Uw	B'	Dw'	Uw																																																															
R	F2	D	Uw'	Rw'																																																															
3Fw	3Uw2																																																																		
3.	<table><tr><td>Lw</td><td>B</td><td>Uw</td><td>Fw</td><td>Dw</td></tr><tr><td>Bw</td><td>R</td><td>Dw'</td><td>L2</td><td>Lw'</td></tr><tr><td>U</td><td>R2</td><td>D'</td><td>R'</td><td>D</td></tr><tr><td>F'</td><td>R</td><td>Bw</td><td>Fw2</td><td>L'</td></tr><tr><td>Dw2</td><td>L2</td><td>Fw2</td><td>F'</td><td>Uw'</td></tr><tr><td>Bw'</td><td>R'</td><td>B</td><td>U2</td><td>Rw</td></tr><tr><td>F2</td><td>Lw</td><td>Uw'</td><td>Rw'</td><td>Dw</td></tr><tr><td>F'</td><td>R</td><td>Uw2</td><td>B'</td><td>Rw2</td></tr><tr><td>Bw'</td><td>F</td><td>Rw2</td><td>U</td><td>F</td></tr><tr><td>L'</td><td>Bw'</td><td>U'</td><td>Dw2</td><td>Bw'</td></tr><tr><td>Fw2</td><td>Lw</td><td>U'</td><td>R'</td><td>Dw</td></tr><tr><td>Uw'</td><td>Lw2</td><td>B</td><td>R'</td><td>D'</td></tr><tr><td>3Fw'</td><td>3Uw'</td><td></td><td></td><td></td></tr></table>	Lw	B	Uw	Fw	Dw	Bw	R	Dw'	L2	Lw'	U	R2	D'	R'	D	F'	R	Bw	Fw2	L'	Dw2	L2	Fw2	F'	Uw'	Bw'	R'	B	U2	Rw	F2	Lw	Uw'	Rw'	Dw	F'	R	Uw2	B'	Rw2	Bw'	F	Rw2	U	F	L'	Bw'	U'	Dw2	Bw'	Fw2	Lw	U'	R'	Dw	Uw'	Lw2	B	R'	D'	3Fw'	3Uw'				
Lw	B	Uw	Fw	Dw																																																															
Bw	R	Dw'	L2	Lw'																																																															
U	R2	D'	R'	D																																																															
F'	R	Bw	Fw2	L'																																																															
Dw2	L2	Fw2	F'	Uw'																																																															
Bw'	R'	B	U2	Rw																																																															
F2	Lw	Uw'	Rw'	Dw																																																															
F'	R	Uw2	B'	Rw2																																																															
Bw'	F	Rw2	U	F																																																															
L'	Bw'	U'	Dw2	Bw'																																																															
Fw2	Lw	U'	R'	Dw																																																															
Uw'	Lw2	B	R'	D'																																																															
3Fw'	3Uw'																																																																		

1.	D' F2 U2 L2 F2 L2 R2 U2 L2 R' U F L2 B U2 L D F' L B' D2 Rw' Uw	
2.	F R2 B' L2 B2 F' R2 D2 L D' B' F' U2 R' B2 U B F' D2 Fw	
3.	U' L2 F2 U' R2 D R2 D2 B2 L' R2 D R B F' L' U' L2 F U2 Rw	
4.	F2 R2 F' D2 L2 F' U2 F2 L2 U' L' D2 F L F2 U2 R2 D F' D2 Fw' Uw	
5.	B2 R2 U' F2 R2 U2 L2 U' F2 D L F' U' L D R B D' Rw' Uw'	

6.

U2 L2 D2 F2 R2 F L2

F2 U2 F' D2 R D R2

B' L' B' L2 D L' R2

Uw2