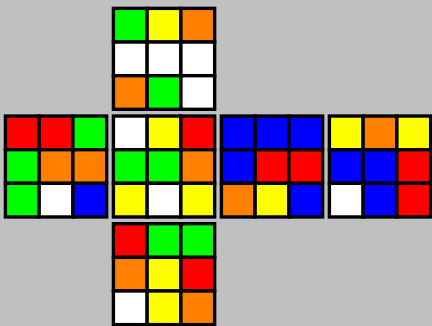
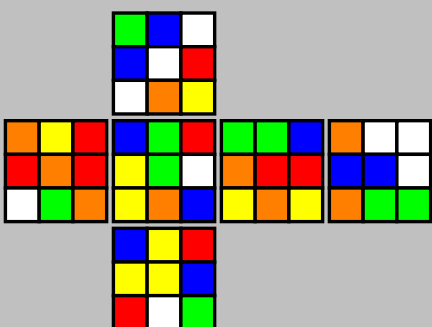
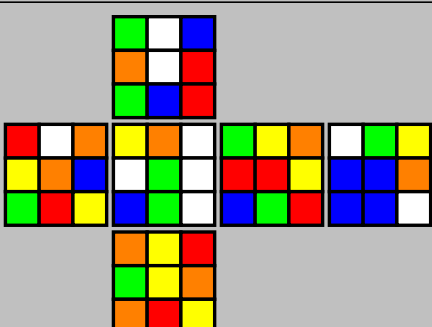
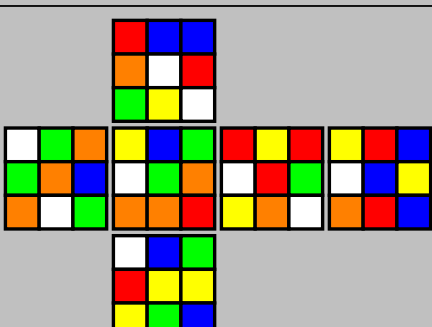
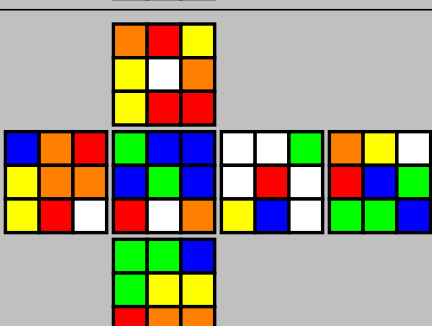
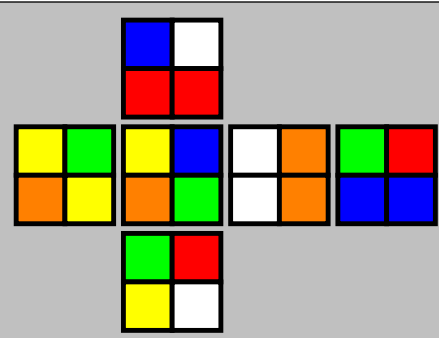
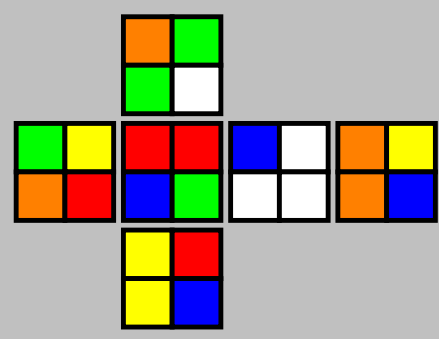
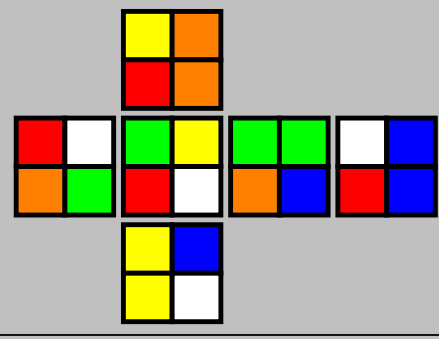
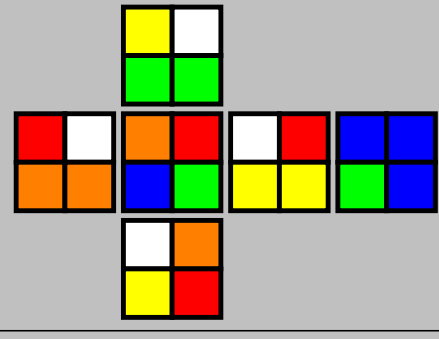
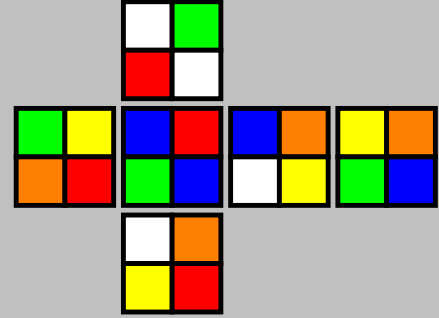
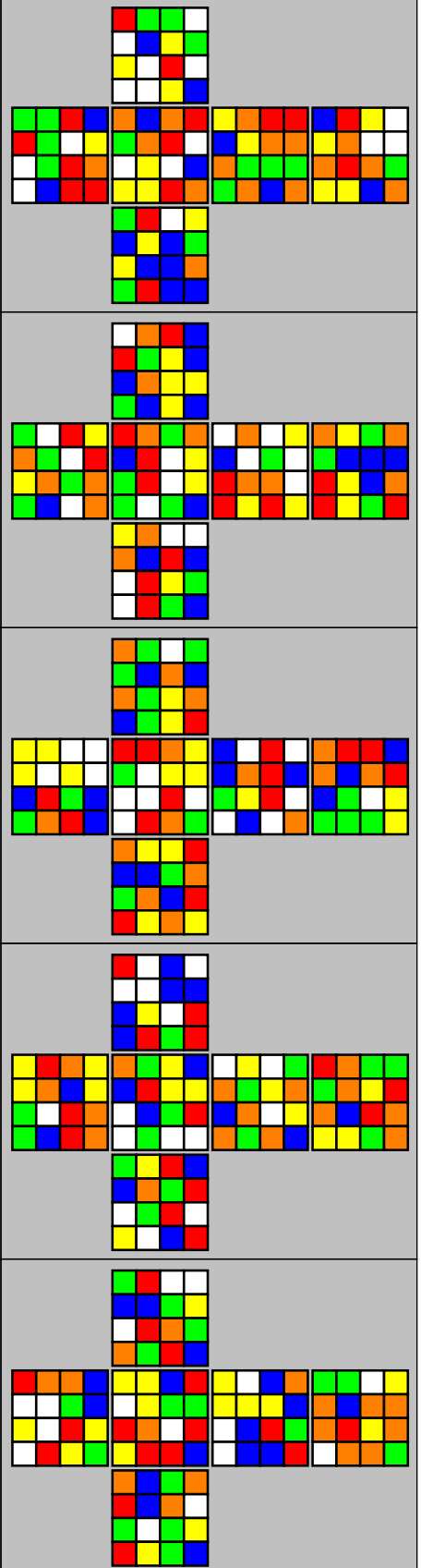


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2.	<p> R^2 L^2 B L^2 U^2 D^2 L F^2 D R F^2 U^2 R^2 B^2 U^2 B^2 R' F^2 R </p>	
3.	<p> B^2 R U D L B L' B' U F' U^2 F^2 R^2 U' B^2 U^2 L^2 D^2 L^2 B^2 L^2 </p>	
4.	<p> L D B^2 R' U^2 F D R U' R L' B^2 L^2 B^2 U^2 B^2 U' F^2 L^2 D' </p>	
5.	<p> R^2 F^2 U^2 L^2 F D^2 F^2 R F U^2 B' D' U^2 R^2 B' D' B^2 </p>	

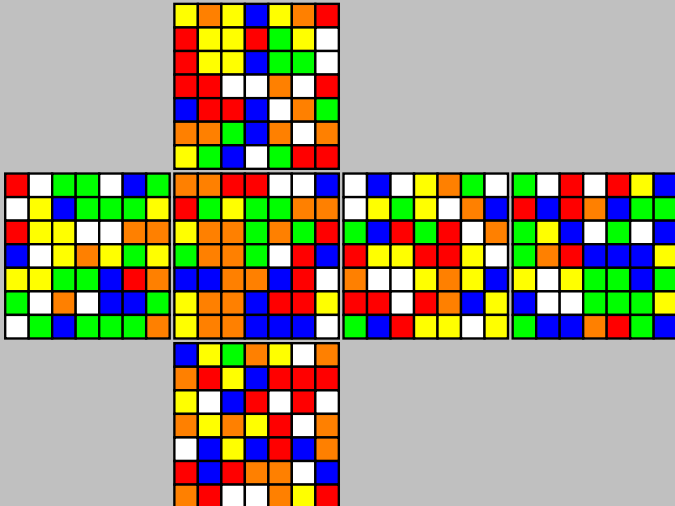
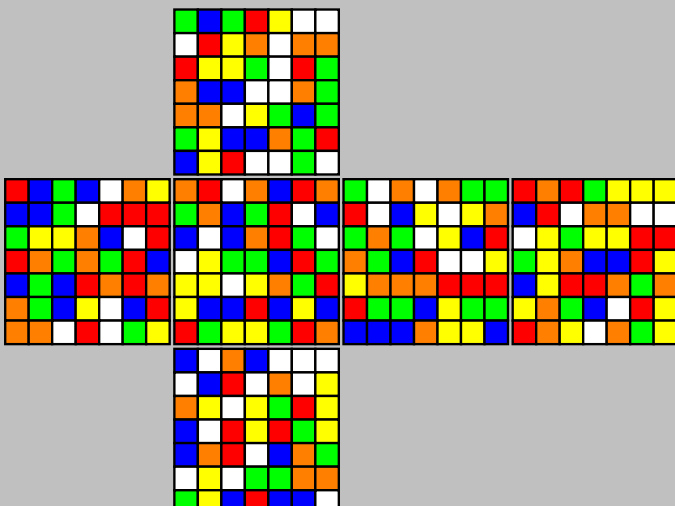
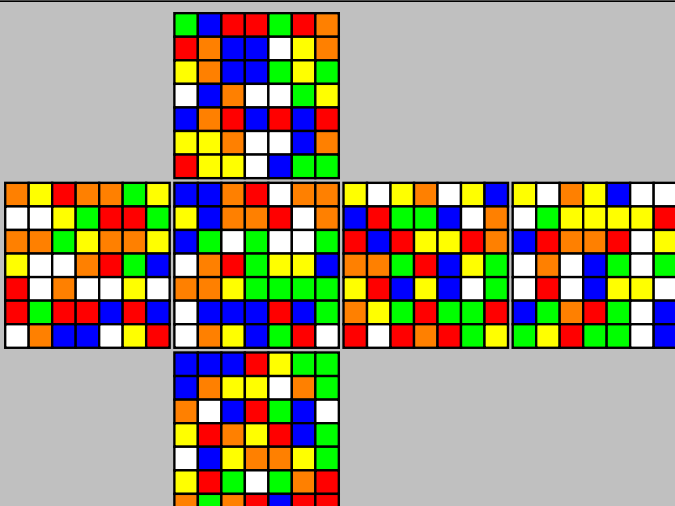
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2.	$U' R U^2 R^2 U' F R U R' F^2 R^2$	
3.	$F' U^2 R' U R' F U' F U' R U'$	
4.	$U' F R^2 U^2 R' U' R' F^2 R^2 U' F'$	
5.	$F^2 R U' R U^2 R' U R' U^2 R^2 U'$	

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



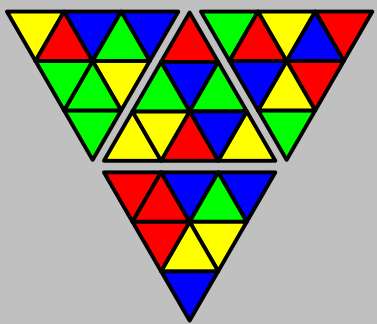
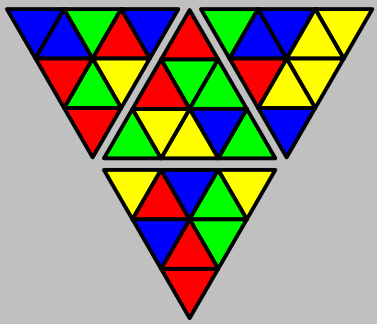
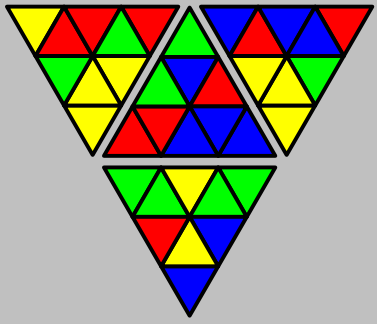
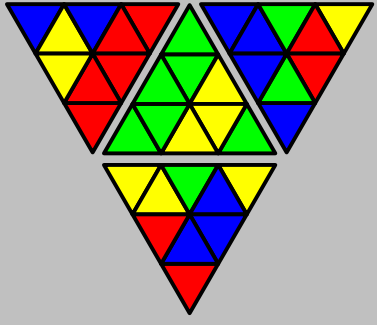
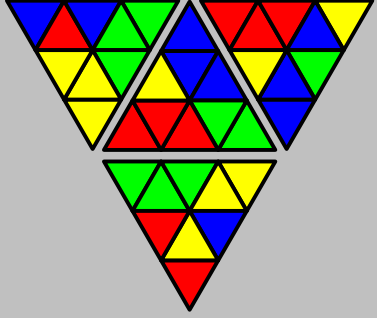
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2.	Bw' B D F' R' F B2 Bw Uw D' Bw U2 Uw Bw' Fw Rw2 D' L' Lw' Bw2 Lw2 Uw' D Rw Fw2 Dw2 Fw' L2 R' Bw D Uw Lw F' Lw2 Fw' Uw2 Rw Lw U2 B Rw Dw Bw2 B2 Lw2 R2 L' Uw' U2 F Bw2 R Bw2 L Bw2 Uw' B U2 Dw'	
3.	D' F Dw Rw' R2 Dw Uw2 D Rw2 U' F2 Rw Lw2 R2 U' R Fw2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

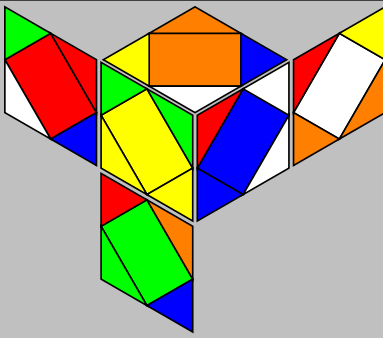
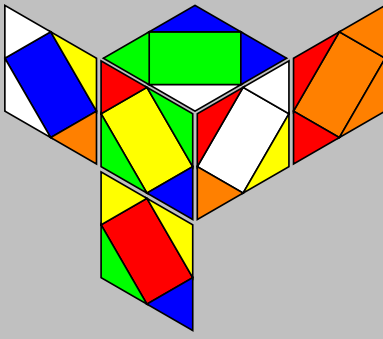
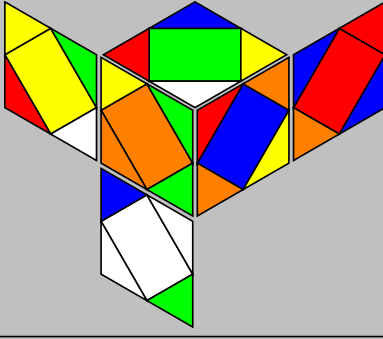
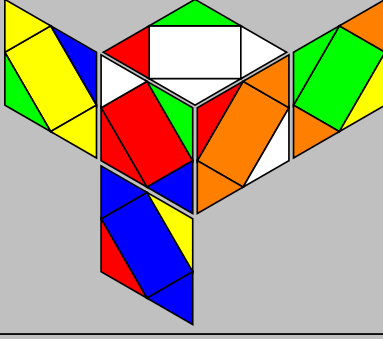
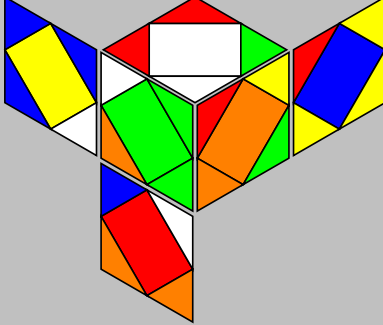
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	Uw2	Rw	Bw	Lw2	L	U2
	L'	Uw'	3Uw'	L2	F'	Dw'
	F'	Fw	Dw'	Lw'	Rw'	Fw'
	R	U2	L'	3Fw	D'	Lw2
	L	Uw'	3Fw	L2	F'	Lw'
	Uw2	L	U'	3Uw2	Bw'	L
	Rw2	3Uw'	Dw	3Fw	U	L'
	Dw	B2	U'	Bw2	Uw	Rw'
	3Uw	U	Uw'	Rw'	Bw	Rw2
	B	Lw2	D	F2	Dw2	Bw
	Rw2	3Rw'				
2.	Fw'	Bw	Uw'	L2	Bw	Rw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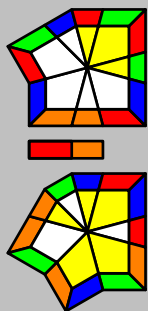
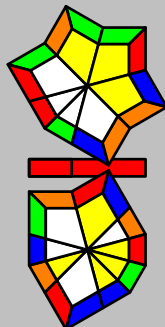
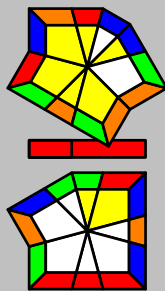
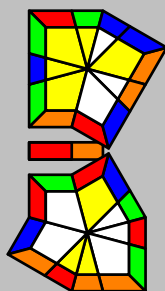
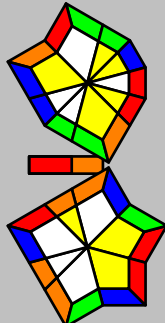
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Lw	L'	B	Dw	3Bw	Bw2	Fw2																																																																																																					
R2	3Fw'	U'	3Uw2	Uw	Bw'	L'																																																																																																		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

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

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

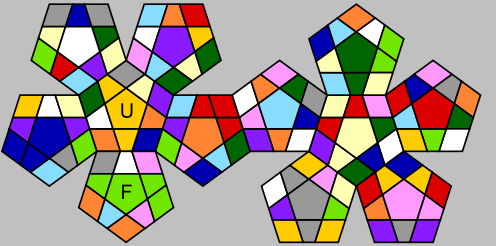
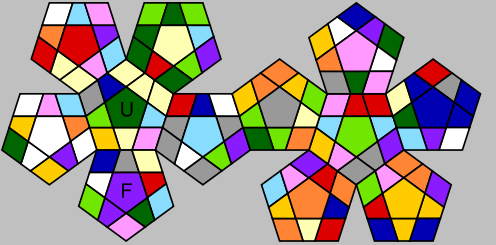
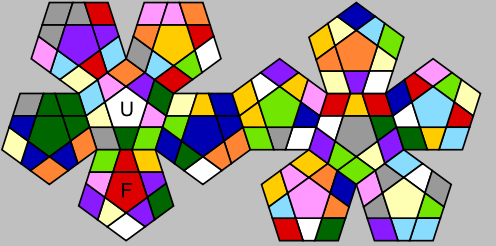
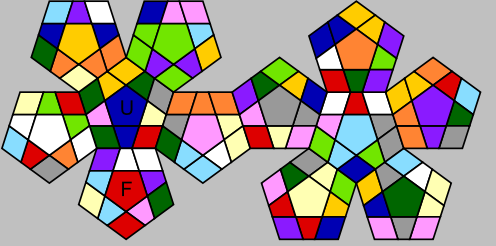
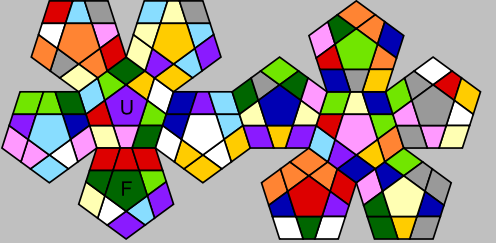
1.	$B' U R' L' B' L' R L' B' R' L' u r' b'$	 A pyramid diagram consisting of two large triangles. The top triangle is composed of 16 smaller triangles (4 rows of 4). The bottom triangle is composed of 9 smaller triangles (3 rows of 3). The colors of the triangles are: Red, Blue, Green, and Yellow. The top triangle has a central vertical line and two diagonal lines. The bottom triangle has a central vertical line and two diagonal lines.
2.	$B R U' R L U' R' U L U R u' l r$	 A pyramid diagram consisting of two large triangles. The top triangle is composed of 16 smaller triangles (4 rows of 4). The bottom triangle is composed of 9 smaller triangles (3 rows of 3). The colors of the triangles are: Red, Blue, Green, and Yellow. The top triangle has a central vertical line and two diagonal lines. The bottom triangle has a central vertical line and two diagonal lines.
3.	$R B' L B' L' U' L' R L' U' B' u' b'$	 A pyramid diagram consisting of two large triangles. The top triangle is composed of 16 smaller triangles (4 rows of 4). The bottom triangle is composed of 9 smaller triangles (3 rows of 3). The colors of the triangles are: Red, Blue, Green, and Yellow. The top triangle has a central vertical line and two diagonal lines. The bottom triangle has a central vertical line and two diagonal lines.
4.	$R' U L' R' U L U B R B R' r' b'$	 A pyramid diagram consisting of two large triangles. The top triangle is composed of 16 smaller triangles (4 rows of 4). The bottom triangle is composed of 9 smaller triangles (3 rows of 3). The colors of the triangles are: Red, Blue, Green, and Yellow. The top triangle has a central vertical line and two diagonal lines. The bottom triangle has a central vertical line and two diagonal lines.
5.	$B L R' B' U B L R' L' B' R' b$	 A pyramid diagram consisting of two large triangles. The top triangle is composed of 16 smaller triangles (4 rows of 4). The bottom triangle is composed of 9 smaller triangles (3 rows of 3). The colors of the triangles are: Red, Blue, Green, and Yellow. The top triangle has a central vertical line and two diagonal lines. The bottom triangle has a central vertical line and two diagonal lines.

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

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

2019-05-17

minx
Scrambles for 2019-05-17

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-- R++ D-- U' R-- D++ R-- D-- R++ D-- R++ D++ R++ D++ R++ D++ U R-- D++ R-- D++ R-- D-- R-- D-- R-- D++ R++ D-- U' R-- D++ 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'	

2019-05-17

 clock
 Scrambles for 2019-05-17

1.	UR2+ DR3- DL4+ UL4+ U1- R3+ D5- L4+ ALL0+ y2 U1+ R4+ D3- L0+ ALL3- UR DR DL	
2.	UR4+ DR5+ DL5- UL1- U5+ R3+ D2+ L3+ ALL2- y2 U1+ R4+ D1- L0+ ALL1- UL	
3.	UR0+ DR3- DL2+ UL2+ U0+ R6+ D5- L3+ ALL4- y2 U1+ R1+ D3+ L4- ALL4- UR DR DL UL	
4.	UR5+ DR4- DL6+ UL1- U5- R1- D5- L3+ ALL5+ y2 U1- R1- D3- L6+ ALL4+ DL	
5.	UR5+ DR5- DL2+ UL1+ U5- R6+ D3- L4- ALL1+ y2 U1+ R1+ D2+ L3+ ALL5+ UR DR DL UL	

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]

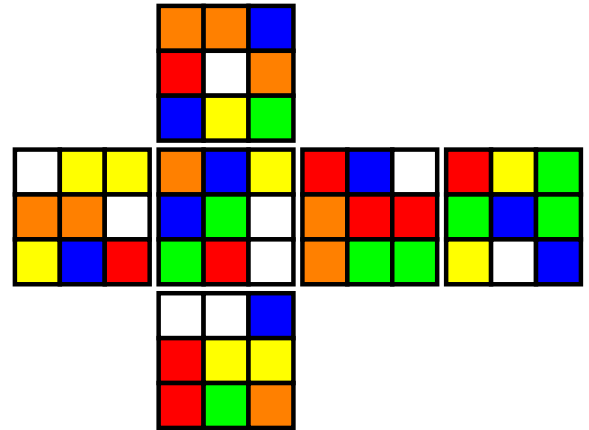
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F L2 U2 L2 D' B2 U' L2 U2 F2 L' F L2 R2 U F L2 B' F2 R2 D' R' U' F

[illegible]

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]

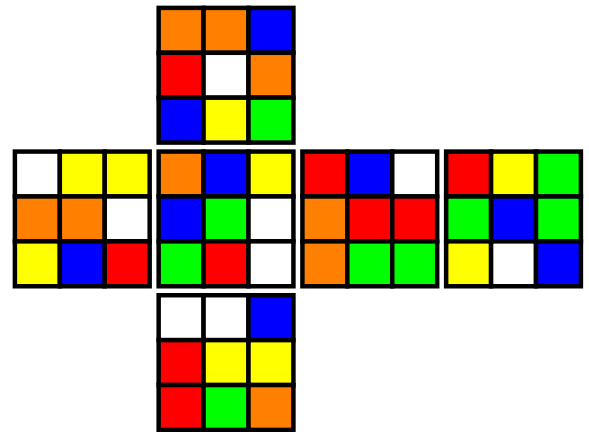
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

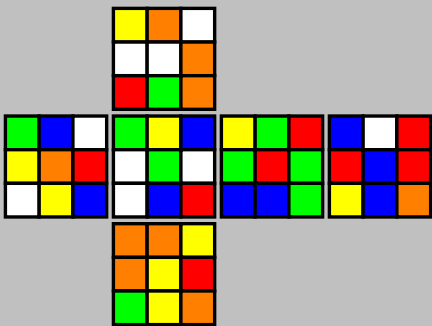
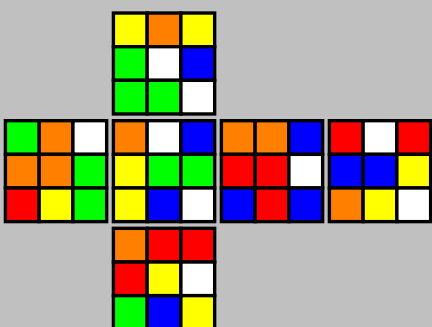
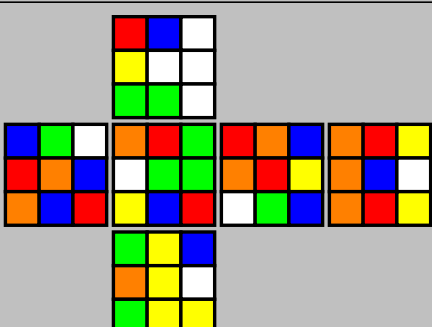
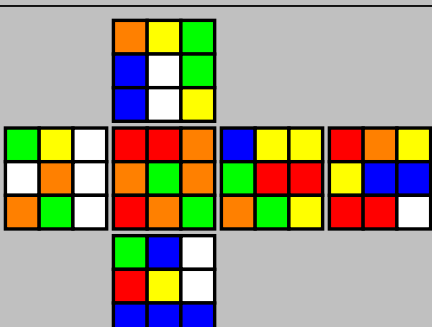
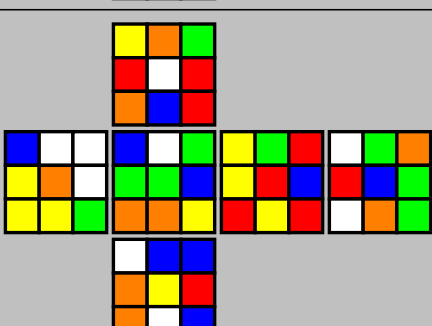
DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



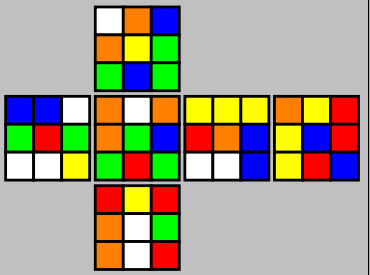
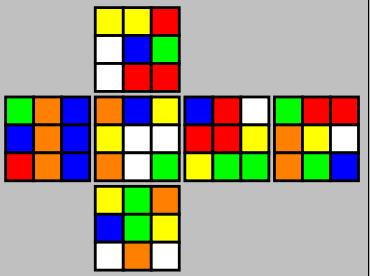
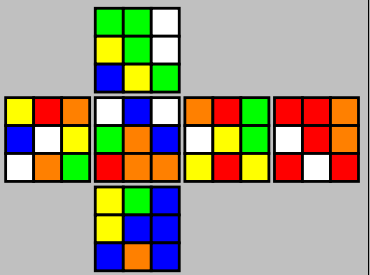
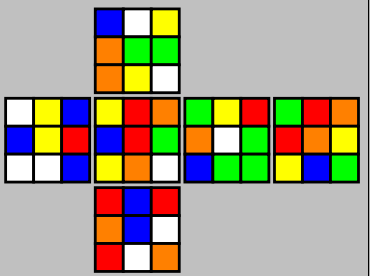
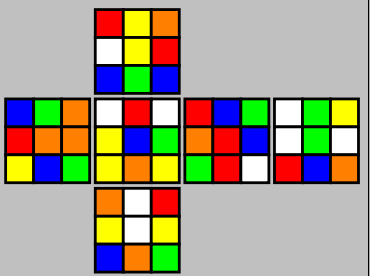
Scramble: R' U' F L2 U2 L2 D' B2 U' L2 U2 F2 L' F L2 R2 U F L2 B' F2 R2 D' R' U' F

This image shows a full page of blank graph paper. The grid consists of evenly spaced horizontal and vertical lines forming small squares across the entire area. There are no margins, text, or other markings on the page.

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

1.	<table><tr><td>U2</td><td>F2</td><td>D2</td><td>B'</td><td>U2</td></tr><tr><td>B'</td><td>R2</td><td>F'</td><td>R2</td><td>B2</td></tr><tr><td>U</td><td>R</td><td>F'</td><td>R</td><td>B'</td></tr><tr><td>L2</td><td>U</td><td>F2</td><td>R</td><td>U2</td></tr><tr><td>Uw2</td><td>R</td><td>U2</td><td>F2</td><td>R2</td></tr><tr><td>B</td><td>Uw2</td><td>Rw2</td><td>F</td><td>R</td></tr><tr><td>B'</td><td>L2</td><td>Uw</td><td>R2</td><td>B'</td></tr><tr><td>D</td><td>B2</td><td>Uw'</td><td>F</td><td>L'</td></tr><tr><td>Fw'</td><td>R'</td><td>Uw</td><td>Fw2</td><td>L'</td></tr><tr><td>Z</td><td></td><td></td><td></td><td></td></tr></table>	U2	F2	D2	B'	U2	B'	R2	F'	R2	B2	U	R	F'	R	B'	L2	U	F2	R	U2	Uw2	R	U2	F2	R2	B	Uw2	Rw2	F	R	B'	L2	Uw	R2	B'	D	B2	Uw'	F	L'	Fw'	R'	Uw	Fw2	L'	Z					
U2	F2	D2	B'	U2																																																
B'	R2	F'	R2	B2																																																
U	R	F'	R	B'																																																
L2	U	F2	R	U2																																																
Uw2	R	U2	F2	R2																																																
B	Uw2	Rw2	F	R																																																
B'	L2	Uw	R2	B'																																																
D	B2	Uw'	F	L'																																																
Fw'	R'	Uw	Fw2	L'																																																
Z																																																				
2.	<table><tr><td>R2</td><td>D</td><td>R2</td><td>D2</td><td>F2</td></tr><tr><td>U'</td><td>B2</td><td>U'</td><td>B2</td><td>R2</td></tr><tr><td>B'</td><td>D</td><td>R2</td><td>B2</td><td>U</td></tr><tr><td>L</td><td>D</td><td>B</td><td>L</td><td>B2</td></tr><tr><td>Uw2</td><td>B</td><td>Rw2</td><td>L</td><td>F'</td></tr><tr><td>R</td><td>Uw2</td><td>Rw2</td><td>B2</td><td>F2</td></tr><tr><td>Uw</td><td>F</td><td>Uw</td><td>F'</td><td>D</td></tr><tr><td>Rw'</td><td>Uw'</td><td>Fw</td><td>Rw2</td><td>R</td></tr><tr><td>Fw2</td><td>B'</td><td>x'</td><td>y2</td><td></td></tr></table>	R2	D	R2	D2	F2	U'	B2	U'	B2	R2	B'	D	R2	B2	U	L	D	B	L	B2	Uw2	B	Rw2	L	F'	R	Uw2	Rw2	B2	F2	Uw	F	Uw	F'	D	Rw'	Uw'	Fw	Rw2	R	Fw2	B'	x'	y2							
R2	D	R2	D2	F2																																																
U'	B2	U'	B2	R2																																																
B'	D	R2	B2	U																																																
L	D	B	L	B2																																																
Uw2	B	Rw2	L	F'																																																
R	Uw2	Rw2	B2	F2																																																
Uw	F	Uw	F'	D																																																
Rw'	Uw'	Fw	Rw2	R																																																
Fw2	B'	x'	y2																																																	
3.	<table><tr><td>U2</td><td>F2</td><td>R'</td><td>D2</td><td>B2</td></tr><tr><td>F2</td><td>R2</td><td>F2</td><td>D2</td><td>B2</td></tr><tr><td>D'</td><td>B</td><td>U</td><td>R2</td><td>B'</td></tr><tr><td>L</td><td>U</td><td>L2</td><td>B2</td><td>D'</td></tr><tr><td>Fw2</td><td>Rw2</td><td>U'</td><td>L2</td><td>R</td></tr><tr><td>Fw2</td><td>L'</td><td>U'</td><td>R</td><td>Fw2</td></tr><tr><td>U2</td><td>D2</td><td>B</td><td>D</td><td>Rw2</td></tr><tr><td>L'</td><td>Fw'</td><td>Uw2</td><td>L</td><td>Uw</td></tr><tr><td>Fw2</td><td>D2</td><td>Rw</td><td>Uw2</td><td>F</td></tr><tr><td>x</td><td>y'</td><td></td><td></td><td></td></tr></table>	U2	F2	R'	D2	B2	F2	R2	F2	D2	B2	D'	B	U	R2	B'	L	U	L2	B2	D'	Fw2	Rw2	U'	L2	R	Fw2	L'	U'	R	Fw2	U2	D2	B	D	Rw2	L'	Fw'	Uw2	L	Uw	Fw2	D2	Rw	Uw2	F	x	y'				
U2	F2	R'	D2	B2																																																
F2	R2	F2	D2	B2																																																
D'	B	U	R2	B'																																																
L	U	L2	B2	D'																																																
Fw2	Rw2	U'	L2	R																																																
Fw2	L'	U'	R	Fw2																																																
U2	D2	B	D	Rw2																																																
L'	Fw'	Uw2	L	Uw																																																
Fw2	D2	Rw	Uw2	F																																																
x	y'																																																			

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

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

6.	F2	D2	L'	R'	F2	L2	R'
	B2	R'	U2	B'	D	R'	D2
	F2	U2	L2	D	B'	U	Rw2