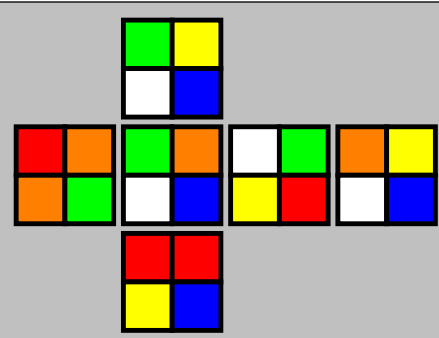
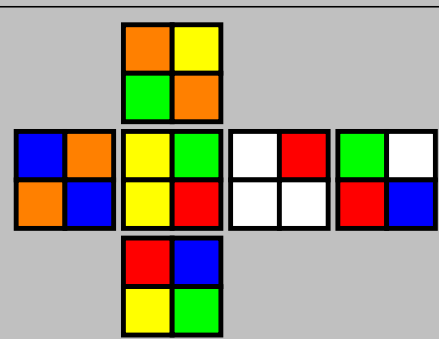
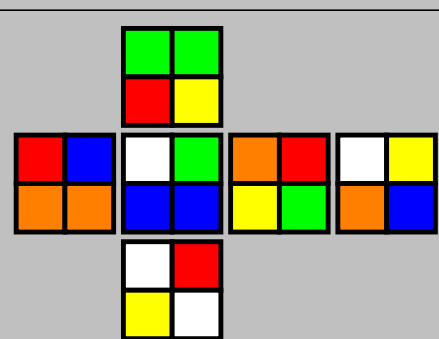
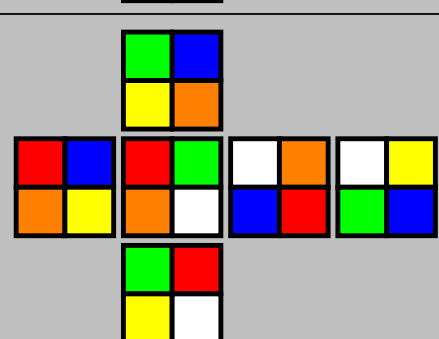
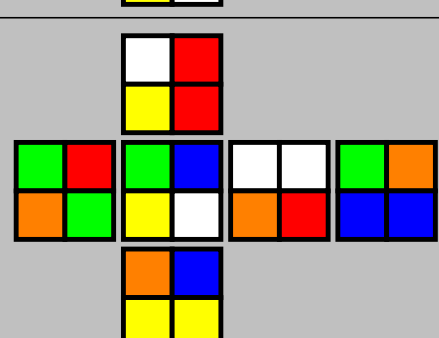
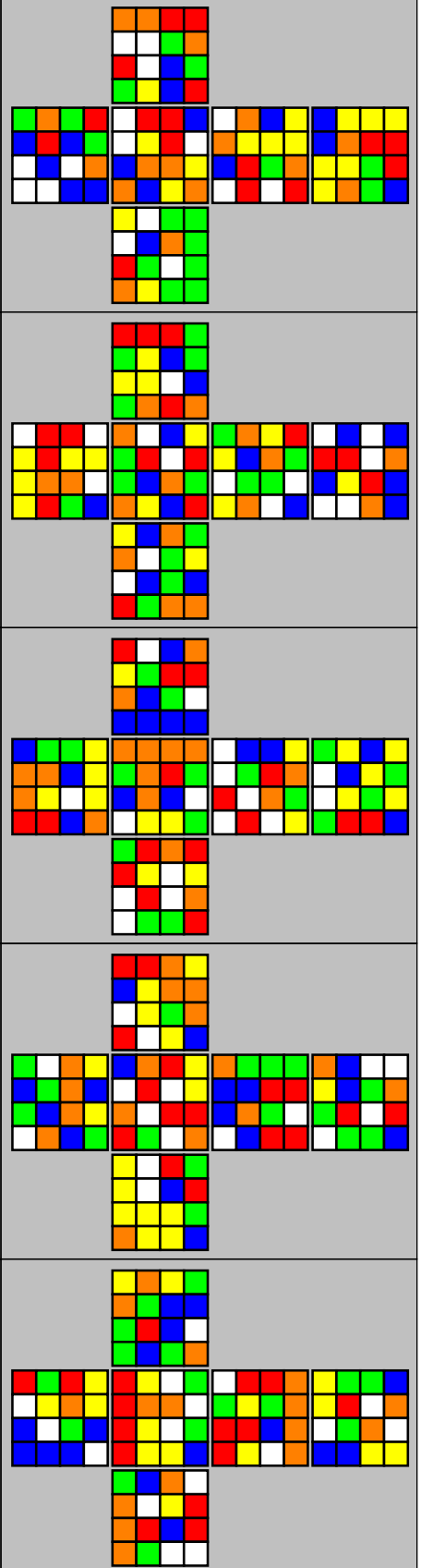


1.	<p>D2 F2 L2 F2 U2 B2 D' R2 D2 F2 D' L F D B D2 L B R F2 R</p>	
2.	<p>B2 F2 U' R2 U B2 U2 B2 L F D' B2 U L D B F U2 F2</p>	
3.	<p>D L F2 L' D F B U B' D F' R2 D2 F' R2 F B' R2 L2</p>	
4.	<p>U' B2 D2 L2 F2 R2 U2 R2 B R2 U2 F' L2 D' B' L2 R' D' L U'</p>	
5.	<p>R2 D2 R U2 D' F D2 R2 U R B' L2 D2 B' U2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

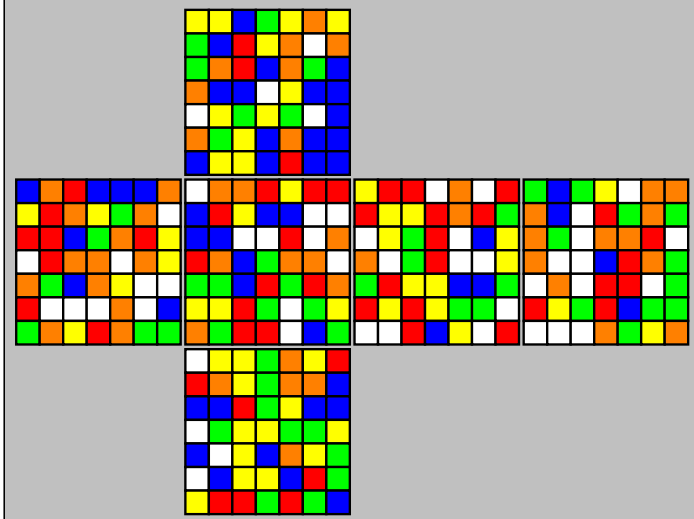
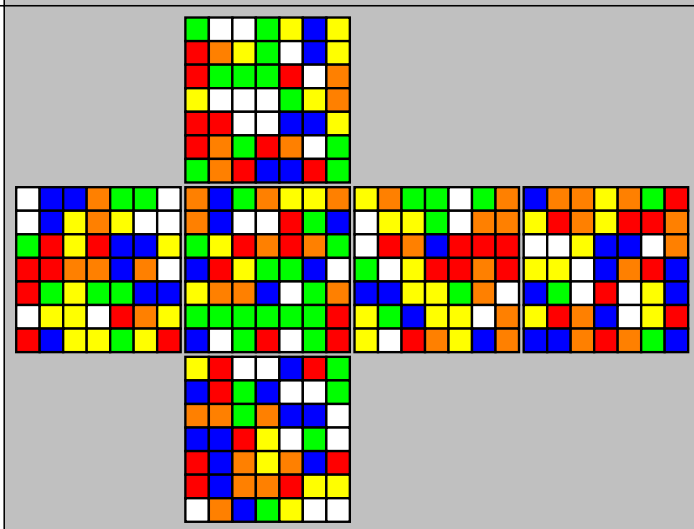
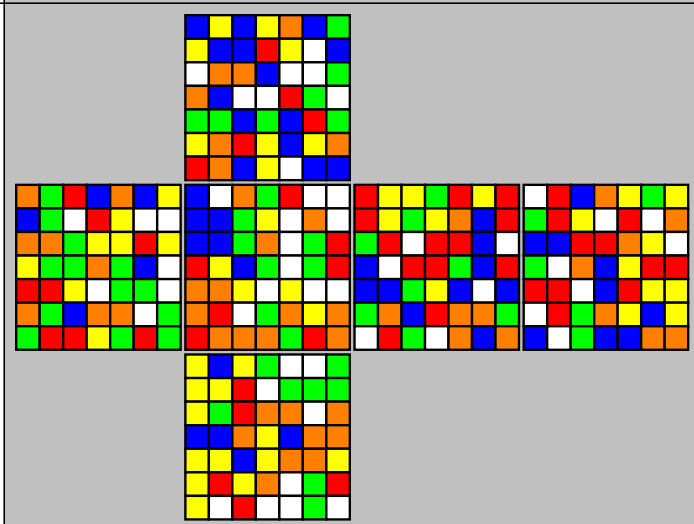
1.	$R' F U^2 R^2 U' R' U' F R^2 F' U^2$	
2.	$R' U F' U' R U' R U' R' F' U^2$	
3.	$R' F U^2 R^2 U^2 F' U' R' U R' F$	
4.	$R' F R U' R' U F U^2 R^2 U^2 R'$	
5.	$R F' R^2 U' R U^2 F U^2 F U' R^2$	

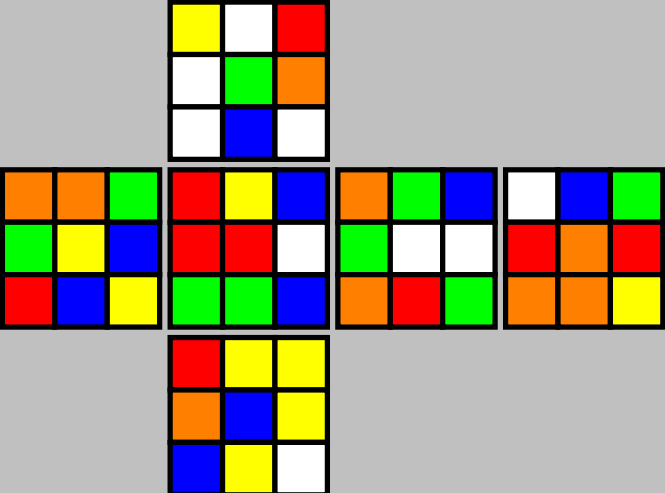
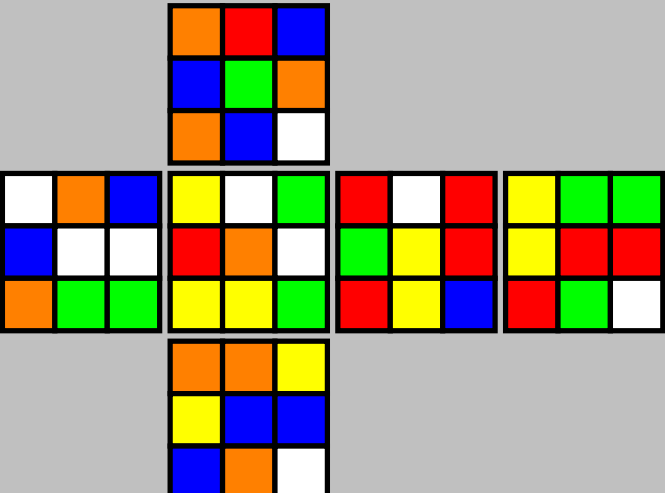
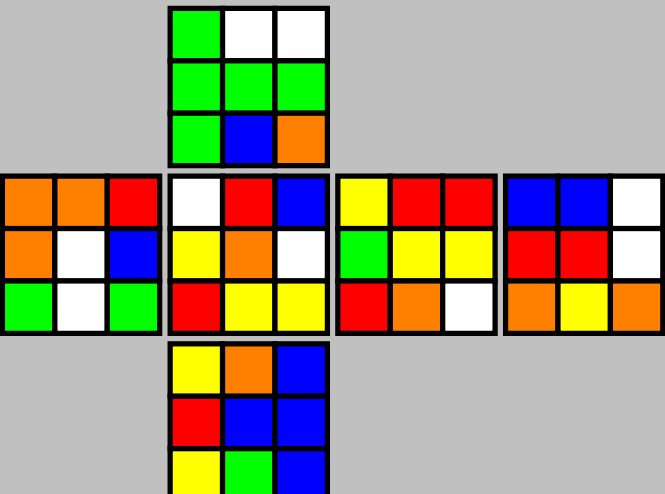
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	D2	U'	Uw2	R'	D'	U	R2
	Rw'	F2	Fw	D2	B2	L'	R'
	Rw'	D'	U'	B2	R'	Rw	B
	L2	Rw	F'	D2	Fw2		
2.	Uw	Fw	B	Uw	F'	Fw	Rw'
	R'	U2	D'	Rw2	D'	Rw'	L'
	D	U2	Rw	B	F2	U	Rw'
	Uw	L2	F	D'	Fw'	R	U2
	Uw'	D2	Fw2	Uw2	F	B2	Uw'
	R	F2	L	U	F		
3.	L2	F	D2	Fw2	Uw	Rw2	L'
	B'	Uw2	Fw2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



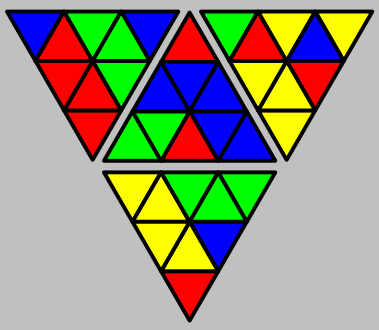
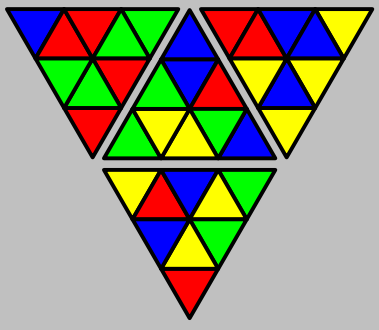
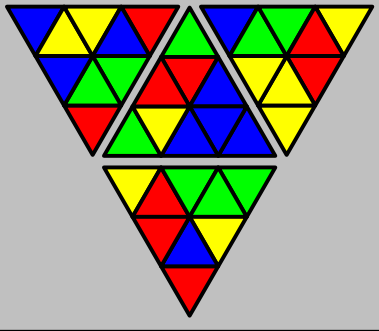
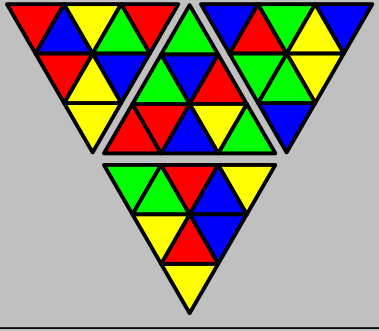
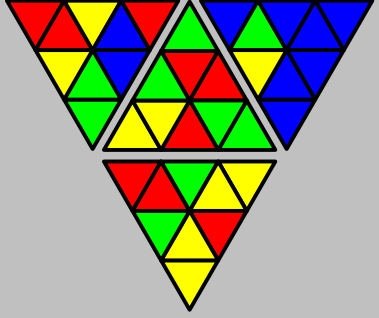
1.	B' Fw' Uw2 F2 L2 Uw' U2 Bw2 Rw F Dw Uw' Lw2 L2 Bw' L' B2 F2 Dw' Bw Fw2 D Uw' Dw L Uw U2 Rw' U Uw2 D2 F Fw R' D2 U2 Rw' Uw R B F2 U F R' Bw' L D2 F Fw L' U' Bw R U2 L Fw2 Bw D2 R2 Bw2	
2.	R Uw Dw' Bw' R2 Fw' Bw L2 Dw B' Dw Uw' Lw' D2 Uw2 U Dw' Bw' R' D2 Rw Uw B L Dw2 R2 Dw Uw2 R2 D L2 R U2 L2 F D Bw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

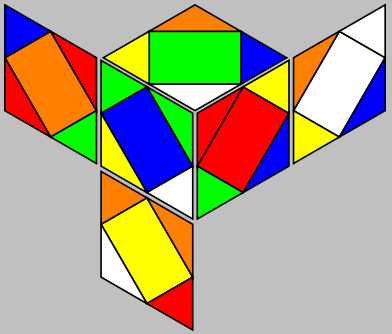
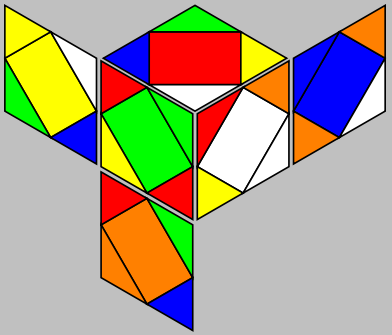
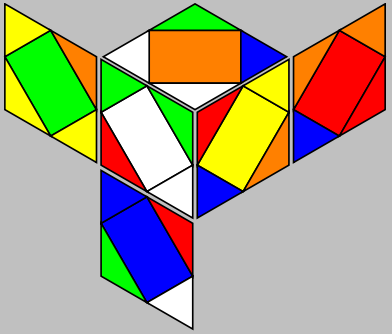
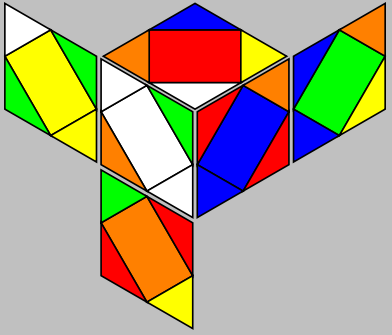
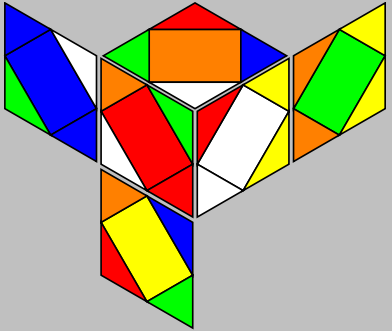
1.	Dw'	Fw'	Bw2	L2	D'	U2
	R2	Lw'	U'	F2	Bw'	Lw'
	F'	Fw'	U	Rw	B2	3Uw
	Fw	U'	Fw2	F'	Rw	3Rw2
	U	Dw'	Rw2	U	3Rw	B'
	Uw'	L	3Fw2	3Uw2	Bw	D
	Bw'	Dw2	3Rw	Bw'	L	3Fw2
	R2	Uw	Fw'	U2	Bw	3Uw
	Bw'	D'	F	Bw	Lw'	Bw'
	B	Rw2	D'	Bw2	L'	3Uw
	Lw	L2	R	U	F'	Dw
	Bw	Uw	3Fw2	B'	Fw'	F'
	Lw'	R2	B2	3Rw	Rw	U2
	B2	Lw'				
2.	Lw'	U2	3Fw2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

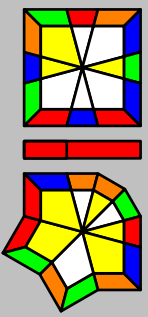
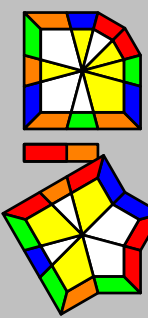
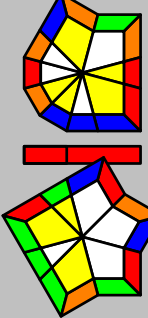
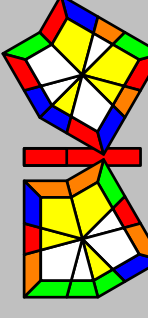
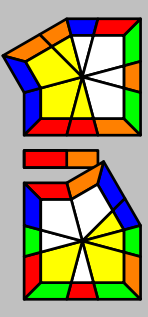
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2.	<div>Dw' 3Rw' Fw' U' Fw' Lw2 U</div> <div>D2 F2 Fw2 Uw B2 3Lw 3Rw</div> <div>Uw2 Lw2 R' 3Fw 3Dw' B' Lw</div> <div>B' Rw2 R2 L Dw' Lw D'</div> <div>3Bw2 Rw' F' Rw' 3Uw R' Lw2</div> <div>3Dw2 3Bw2 3Rw2 Rw 3Dw2 Lw' Uw2</div> <div>D' 3Dw Bw 3Fw D Lw'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

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

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

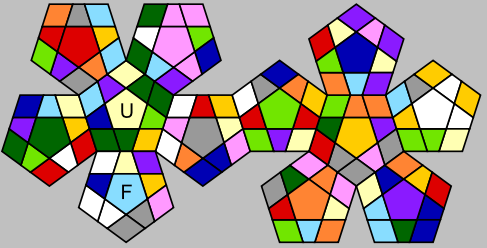
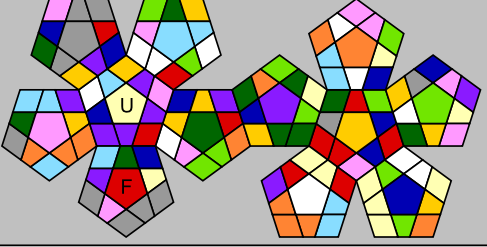
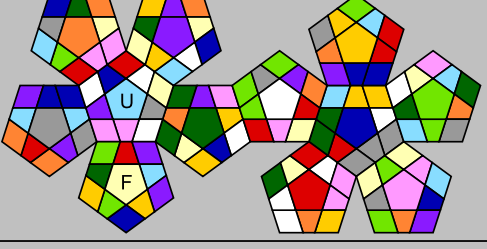
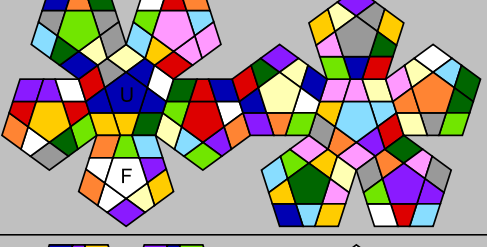
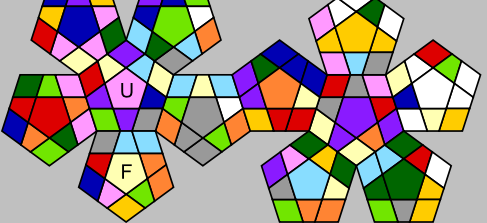
1.	$R' L' B' L' B L' U' B U B' U u b$	
2.	$L' B L' R' U B U R L U' B l r' b$	
3.	$L' B' U R L R' L' B U R' B' u l b'$	
4.	$R' B L B R B L' U B L R u' r' b'$	
5.	$U' B' L B' R L U' B U R' B u$	

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

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

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++ 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'	

2019-05-17

 clock
 Scrambles for 2019-05-17

1.	UR3+ DR3- DL3- UL5- U0+ R3- D6+ L1- ALL3- y2 U5+ R2- D5- L5+ ALL0+ DR DL	
2.	UR3- DR2- DL3- UL0+ U5- R1- D6+ L4- ALL2+ y2 U5- R2+ D0+ L3+ ALL4+ DR	
3.	UR4+ DR6+ DL4+ UL5+ U5+ R1+ D3+ L5+ ALL2- y2 U1+ R1- D5- L0+ ALL5+ DL UL	
4.	UR4- DR5+ DL2+ UL1- U3+ R3+ D1+ L1+ ALL3+ y2 U2+ R4+ D5- L1+ ALL3- DR	
5.	UR3- DR1+ DL3- UL6+ U1+ R5- D3+ L5+ ALL0+ y2 U5+ R6+ D5- L1- ALL3- UR DR	

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]

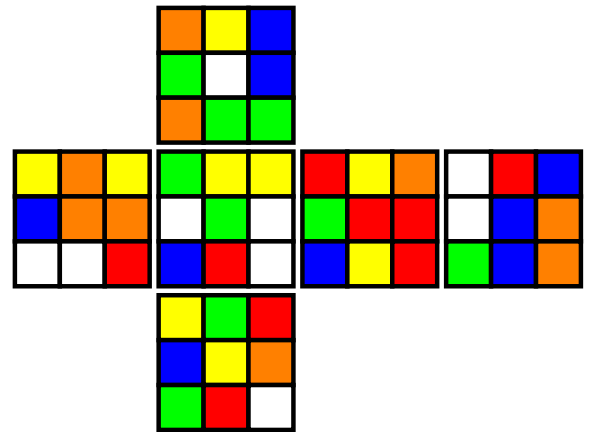
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F L2 R2 F2 L2 B2 D F2 R2 F2 L2 D2 R F D L2 U' L D2 B R' F R' U' F

A blank sheet of white paper featuring a light gray grid pattern. The grid consists of evenly spaced horizontal and vertical lines, creating a series of small squares across the entire page. There are no margins, text, or other markings on the paper.

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.
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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]

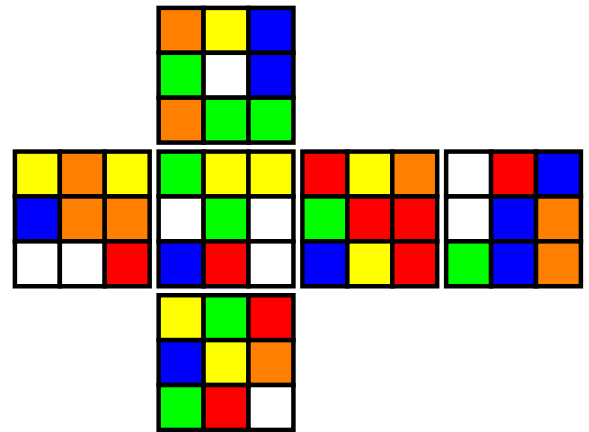
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

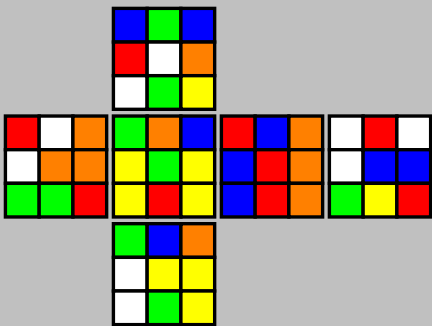
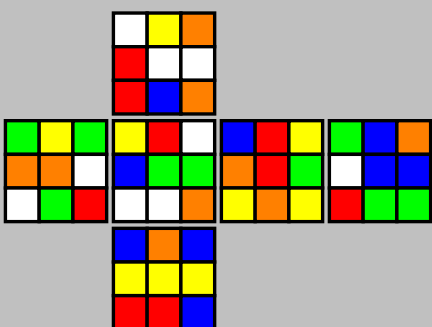
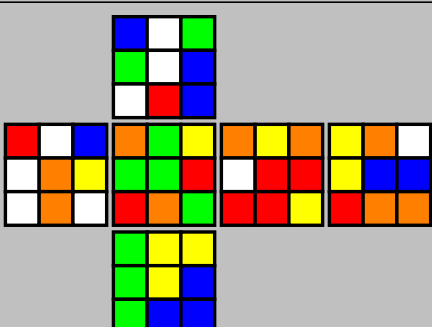
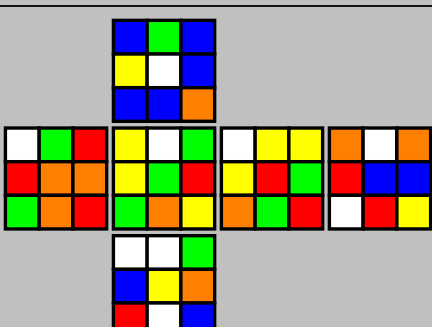
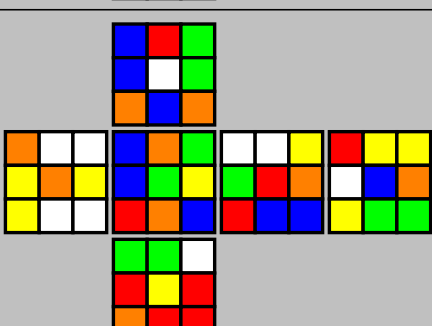
DO NOT FILL IF YOU ARE THE COMPETITOR.

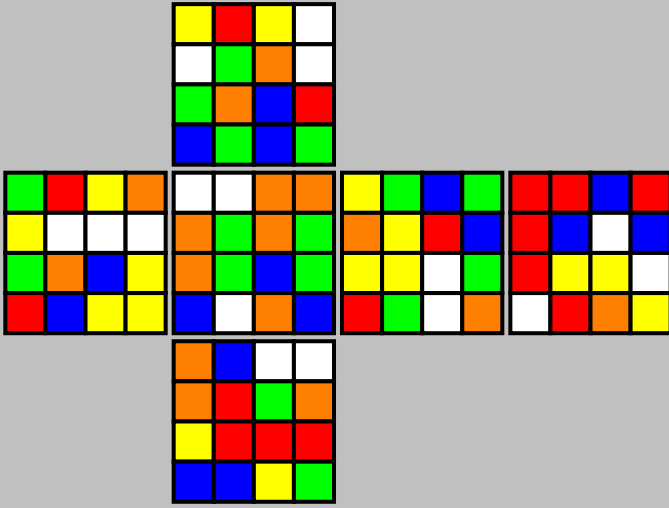
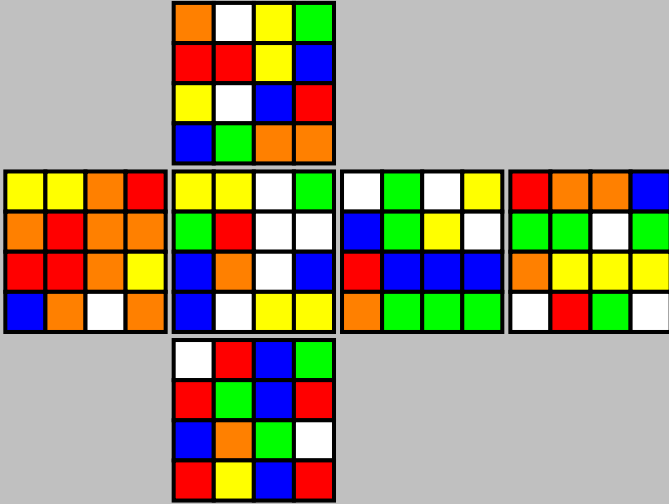
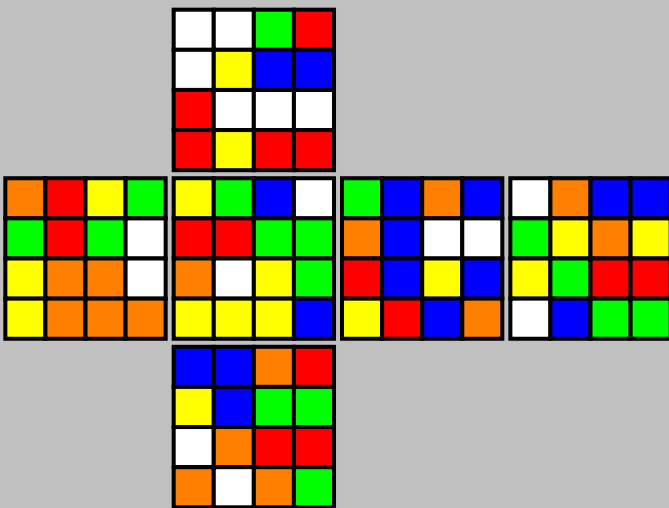
Graded by: _____ Result: ____

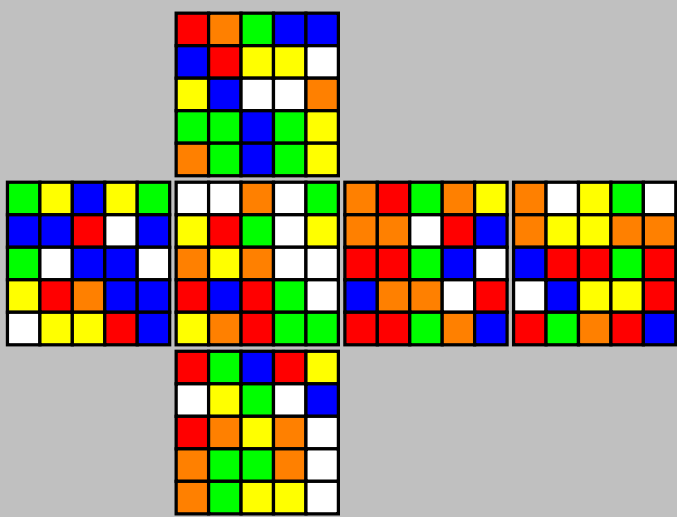
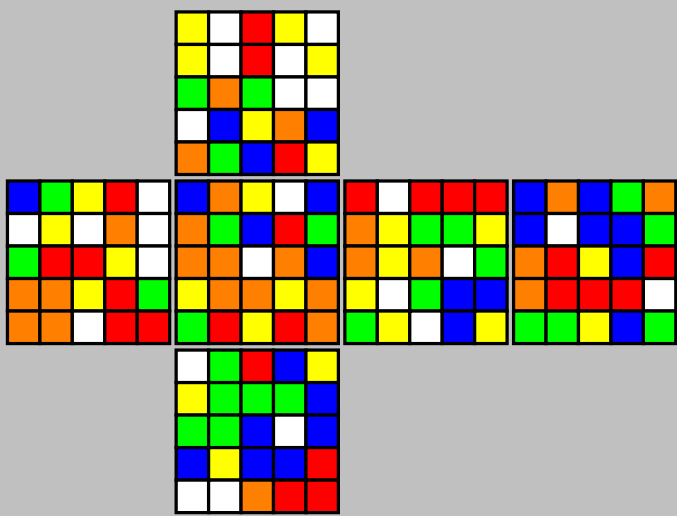
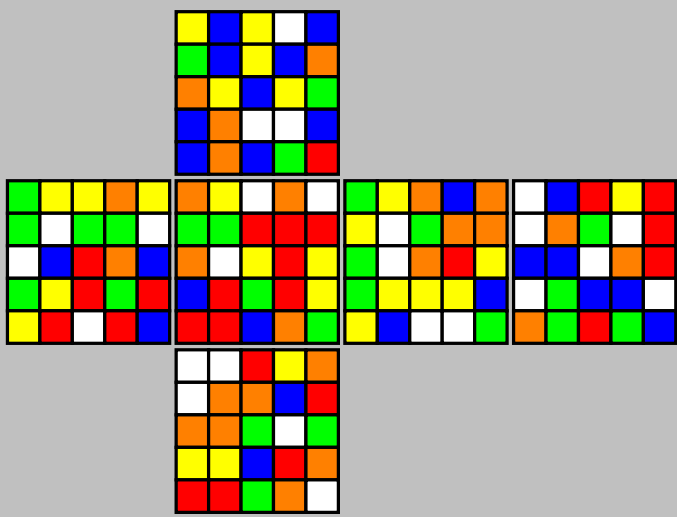


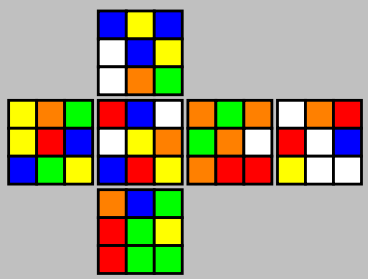
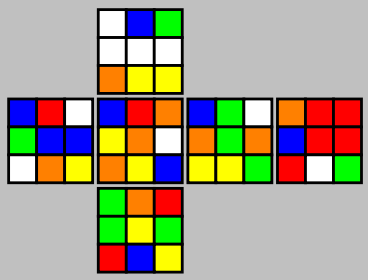
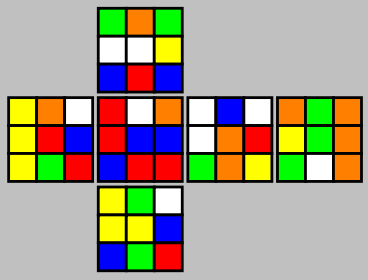
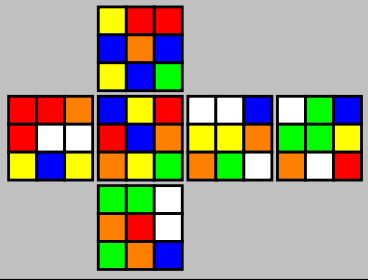
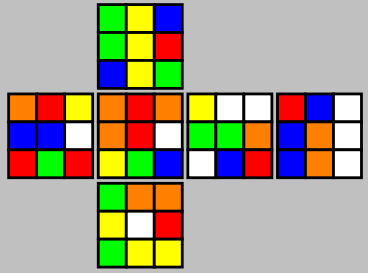
Scramble: R' U' F L2 R2 F2 L2 B2 D F2 R2 F2 L2 D2 R F D L2 U' L D2 B R' F R' U' F

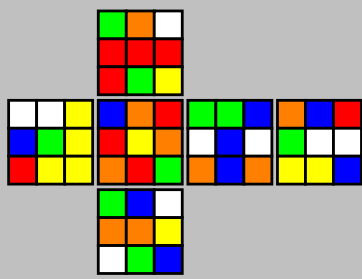
[illegible]

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

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

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

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

6.	U2	B2	R	D2	B2	L'	F2	
	R2	B2	L'	B'	U'	L	R	
	U	L	D2	B2	F'	U2	Fw'	
	Uw							