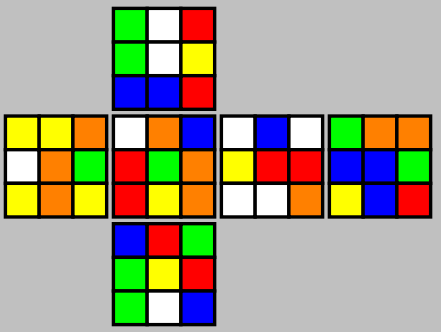
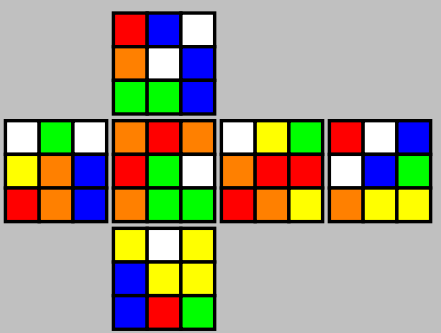
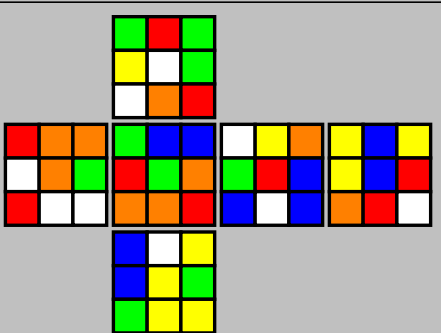
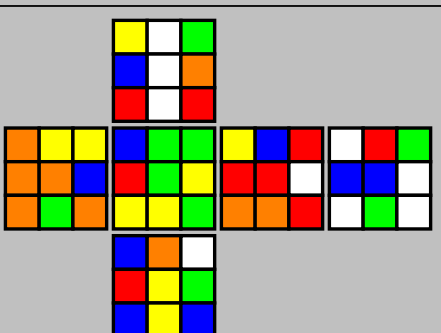
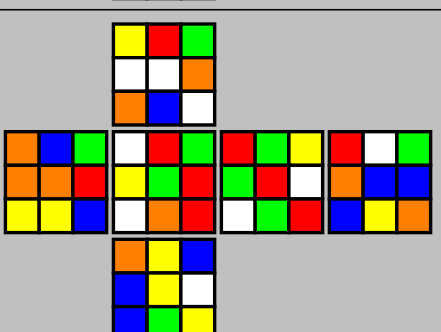
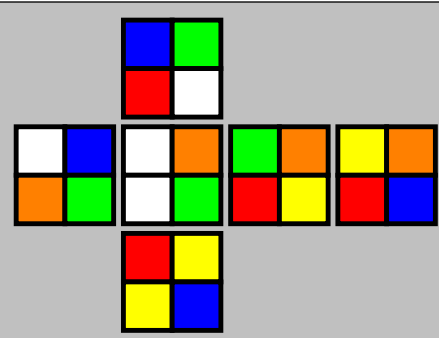
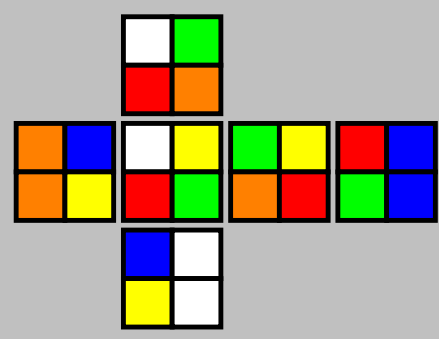
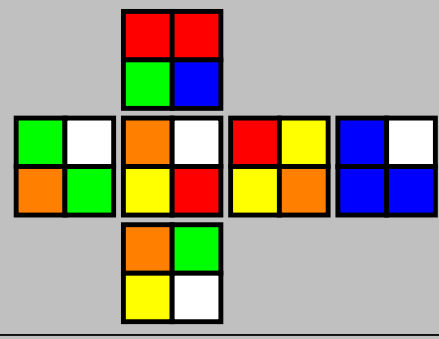
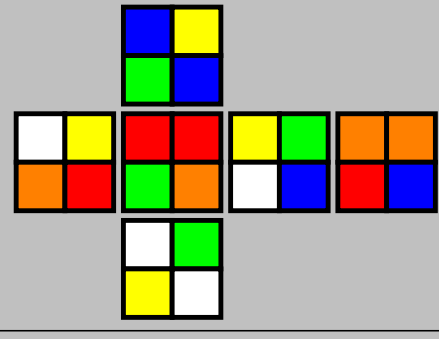
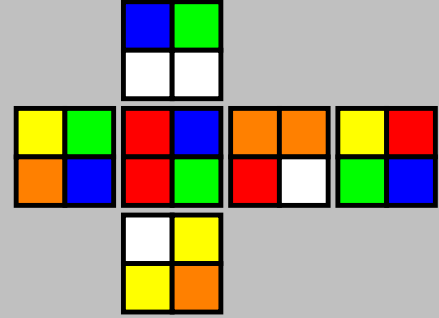
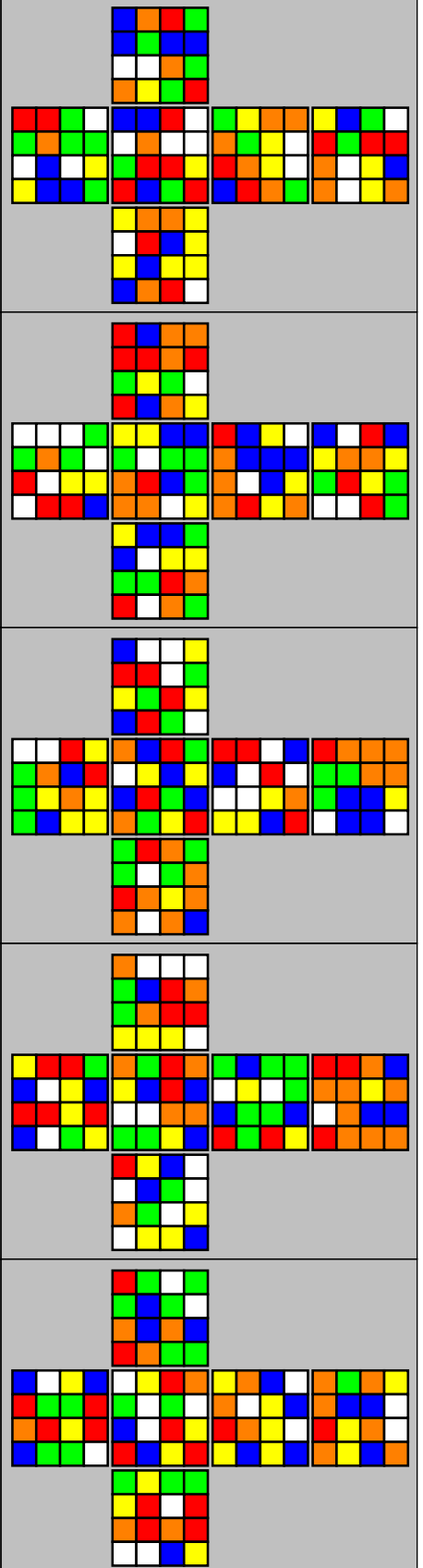
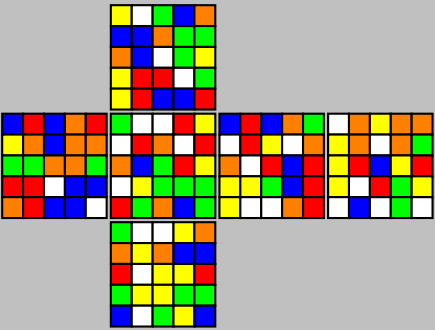
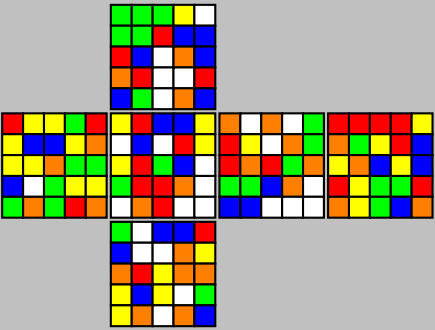
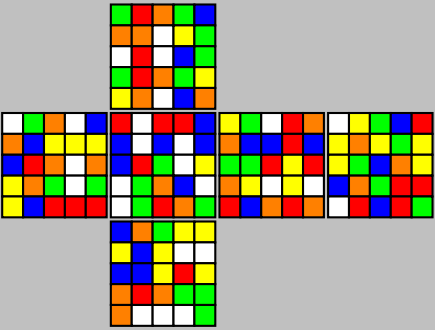
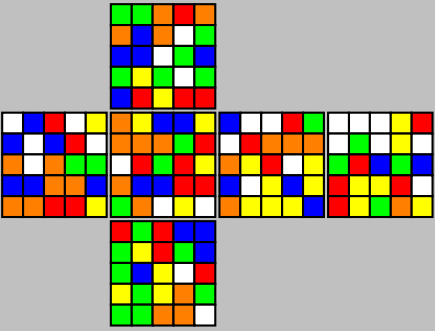
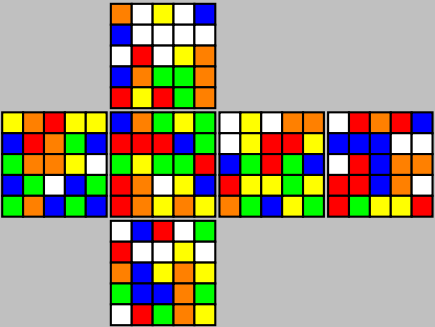


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2.	U^2 L' D^2 R' D^2 L^2 B^2 R' D^2 R^2 B U' B L F R B D^2 R' F'	
3.	F^2 R^2 L^2 U' B U' F^2 D^2 B' D F R' F^2 R D^2 R L' B^2 R^2	
4.	B^2 R U^2 L^2 F^2 D^2 U^2 L^2 R^2 B F' U' B R D^2 B D^2 F L R	
5.	U F' R^2 D R' B L B U' F^2 D' R D^2 F^2 D^2 F^2 R' D^2 B^2 R'	

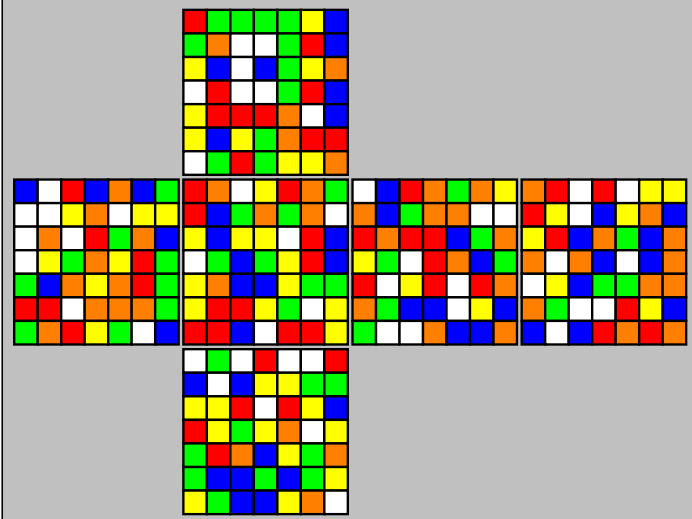
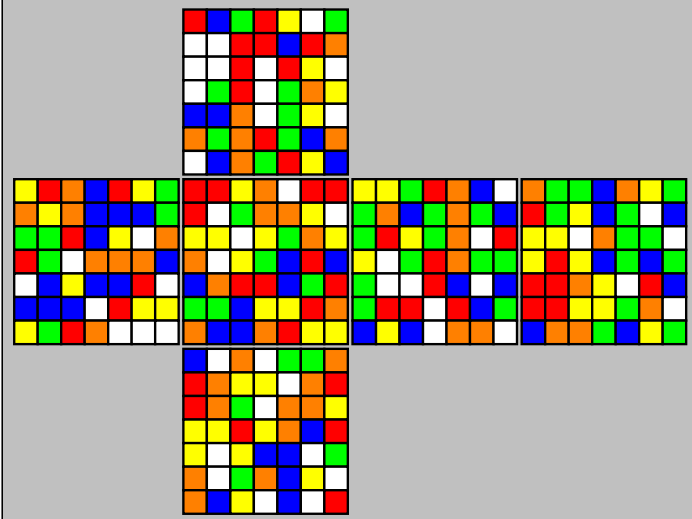
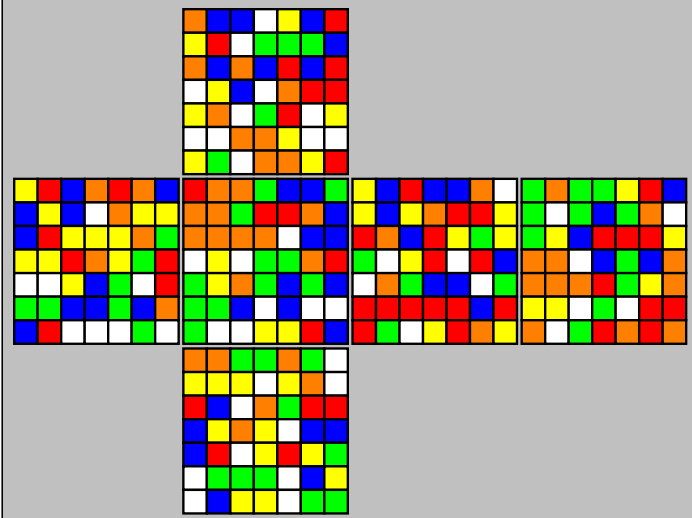
1.	$F' U' F' U^2 R^2 U' F R' U' R U'$	
2.	$R U^2 R^2 F U' F' U^2 F R^2 U^2 F'$	
3.	$U^2 R U' F' U^2 F' R' U' R^2 U^2 F'$	
4.	$U^2 F R U' R' F R' U' F R^2 U^2$	
5.	$R' F U' R U' R' U^2 F U' F' R$	

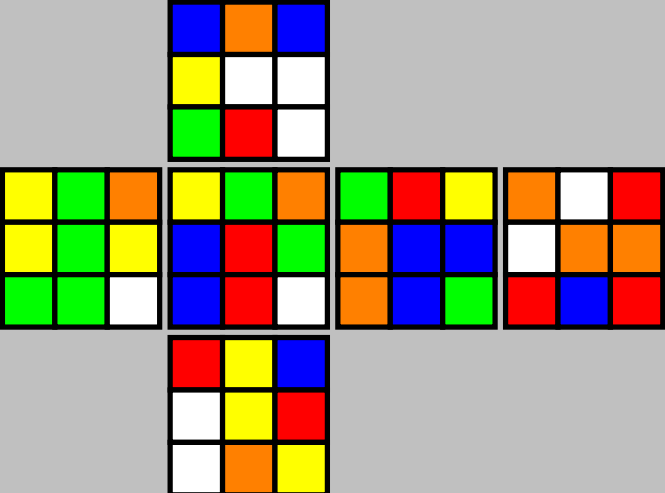
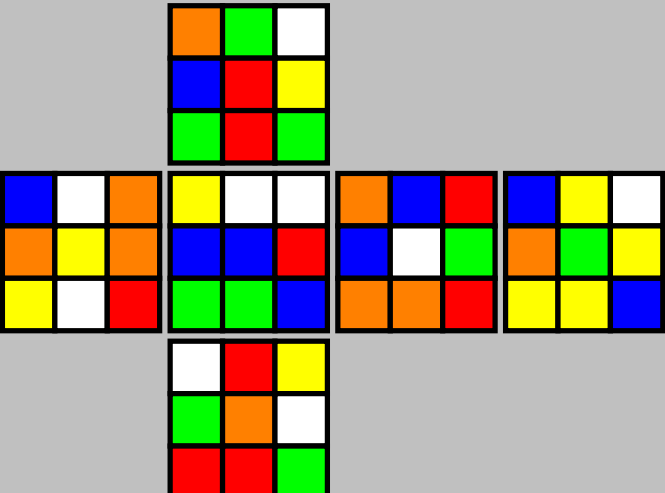
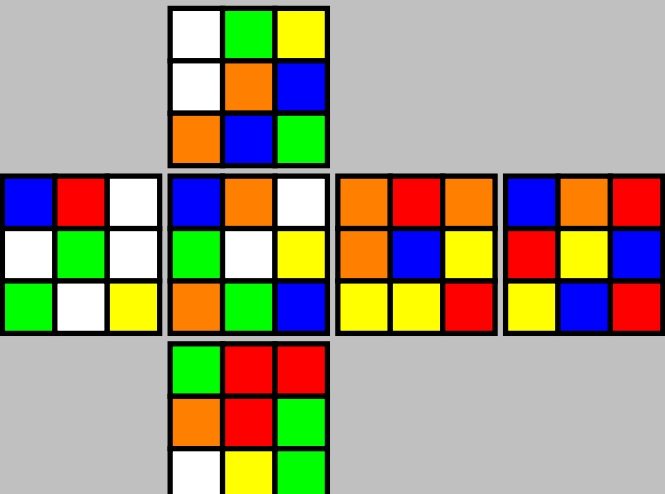
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	B'	Uw2	D'	B'	U'	Rw'	D2
	U2	Rw2	R2	F	B'	Rw2	Fw
	U2	B'	Uw'	L'	Fw'	Uw	Rw2
	D'	B'	L'	Uw	F'		
2.	Fw'	Rw'	Uw2	R2	L	D'	R
	L'	F'	Fw2	Rw	Uw	L2	B'
	F	Fw2	Uw'	D2	F2	Rw'	D'
	U'	F2	R2	Rw2	F'	Uw2	B
	Fw'	F2	L2	Fw'	L2	Uw'	Fw
	D	R2	Uw2	U	Fw		
3.	Uw'	D2	L	D2	R'	Uw'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

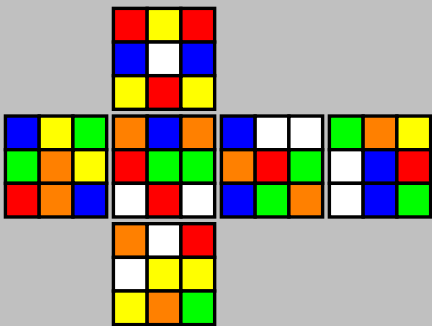
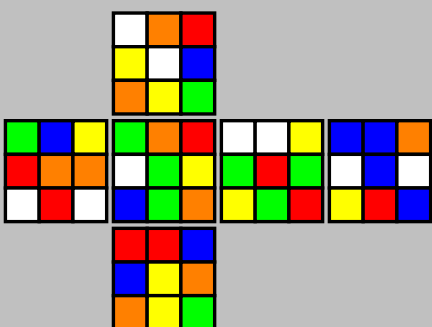
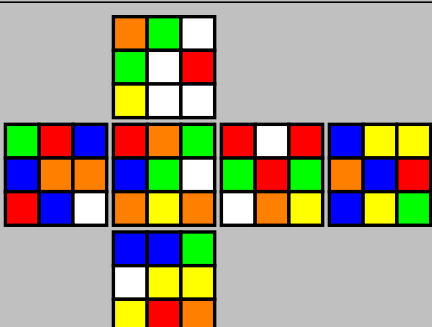
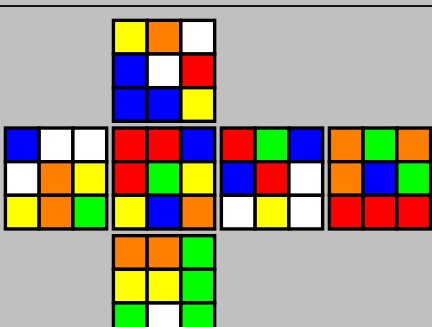
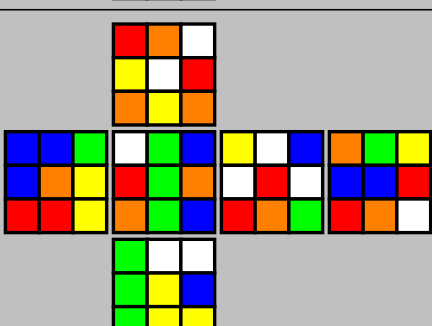


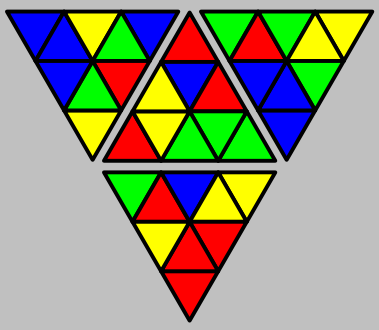
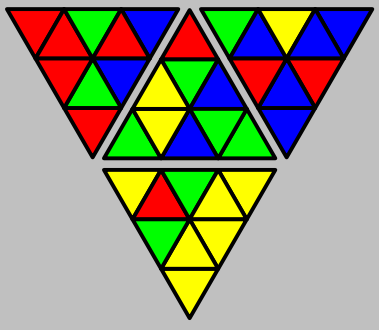
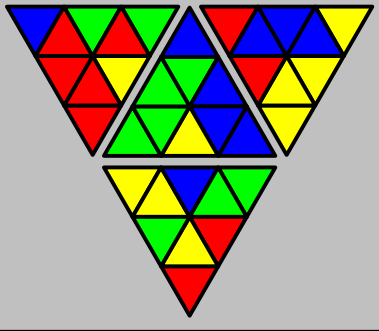
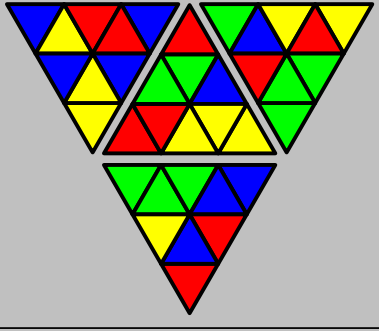
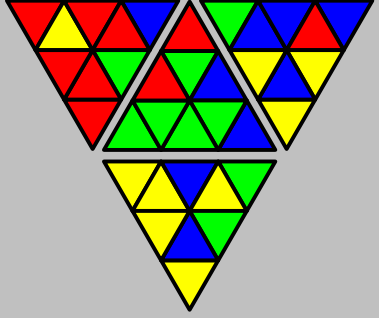
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2.	Fw R' D Dw' R2 B L' Rw2 Dw F' L' Dw' Fw2 Uw2 Dw2 Fw2 B' R' B2 Bw2 Uw2 R' U2 L Dw2 Fw2 F2 Bw' Rw Lw2 R2 U' Uw' R' B' U2 Bw Dw Rw' Uw2 Dw Bw' Uw' F Bw' Uw' Bw2 Lw D2 L2 B2 L' Uw Bw2 L2 B2 F' D' Rw' F2	
3.	L2 B' L Fw F' Lw F2 Bw' Lw2 Bw Dw B2 Dw2 Uw2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

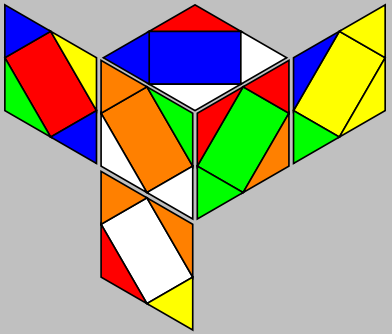
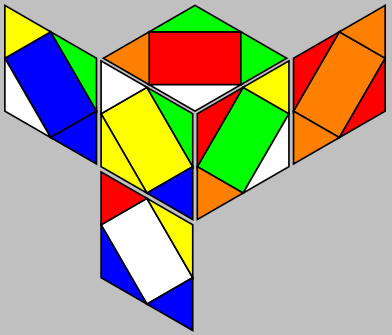
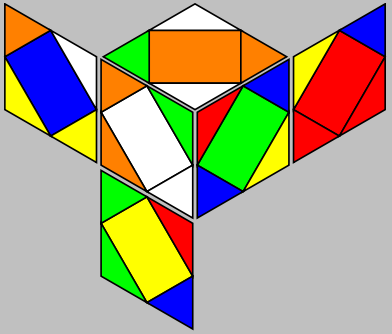
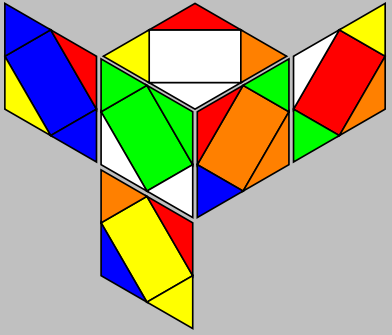
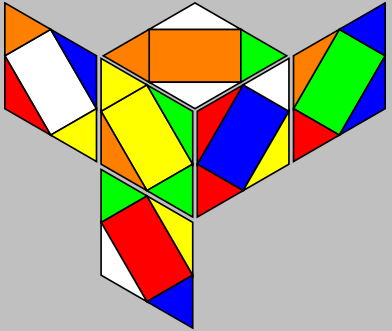
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	Dw	3Rw'	Uw	F	Bw2	B2
	Rw2	3Rw2	Dw'	Lw	Rw'	3Rw'
	B2	Rw	L	3Fw'	U	3Fw2
	Lw2	3Fw'	Lw	B'	Rw	R
	3Uw	U	Fw'	3Uw2	L'	F
	Uw'	R'	B'	Fw'	3Fw'	Uw
	F	Dw'	3Fw	B'	Bw'	3Uw
	D	Bw2	Uw'	Lw2	L	Fw'
	F'	Lw	Rw	Dw'	U2	Rw2
	Bw'	R2	L	Fw2	Lw'	Bw
	3Fw2	3Rw				
2.	Dw	U	B'	Rw	Uw'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

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

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

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

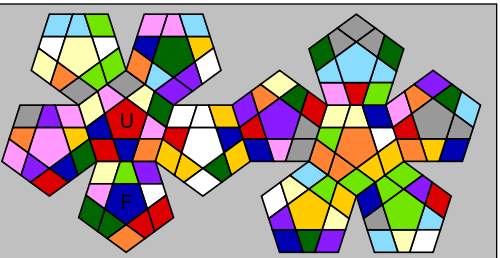
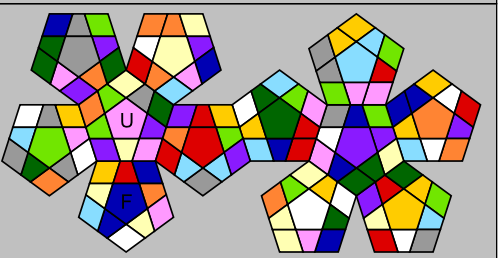
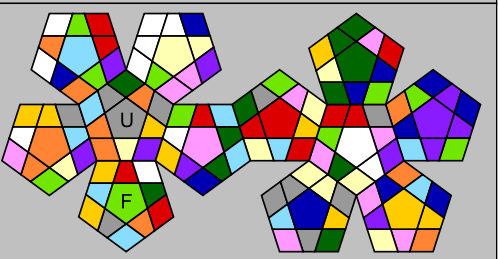
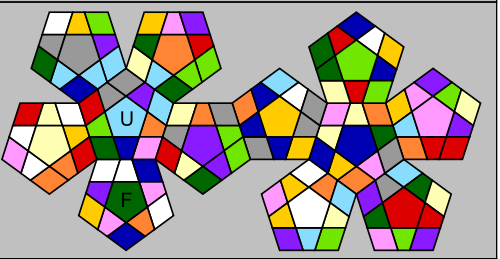
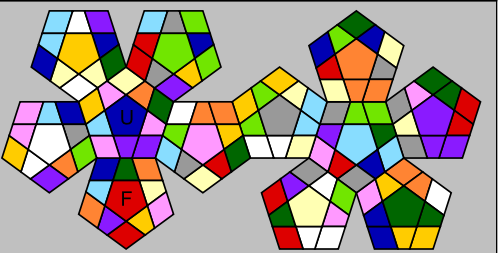
1.	U L R U B R' U R U L R' u l'	
2.	R U' L' R U' L U L R L U u' l	
3.	L' R' B' L' U' B L' U' B U' B' u b	
4.	R' B L U' B' L U' L' B' U' R' u' b'	
5.	L' B' R L B L' U L R' B' U' u' r' b	

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

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

2019-06-17

minx
Scrambles for 2019-06-17

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

2019-06-17

 clock
 Scrambles for 2019-06-17

1.	UR1+ DR4+ DL3+ UL2+ U2- R5+ D5- L2+ ALL1+ y2 U4- R6+ D3- L6+ ALL3- UR DL	
2.	UR1+ DR0+ DL6+ UL1+ U1+ R1- D1- L3+ ALL5+ y2 U1- R6+ D2- L1- ALL5+ UR DR	
3.	UR0+ DR3+ DL0+ UL4+ U4+ R2- D1- L1+ ALL2+ y2 U5- R5- D6+ L2+ ALL2- UR UL	
4.	UR2- DR5- DL1- UL3+ U4+ R4- D0+ L5- ALL2+ y2 U5- R4+ D0+ L2+ ALL2- UR DR	
5.	UR2- DR4+ DL3- UL1+ U3+ R6+ D4- L3- ALL2- y2 U3- R1- D1- L2+ ALL2+ 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]

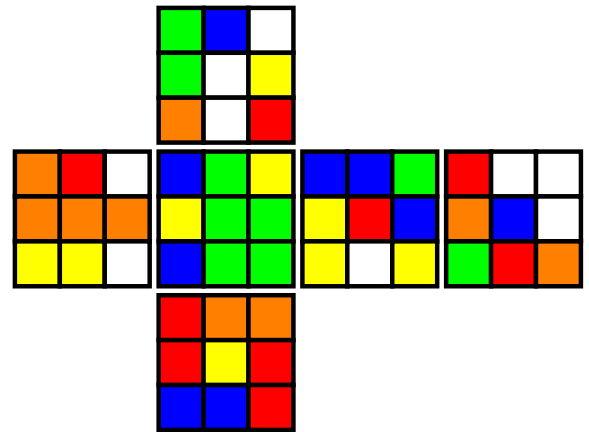
Scrambles for 2019-06-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



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

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.
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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]

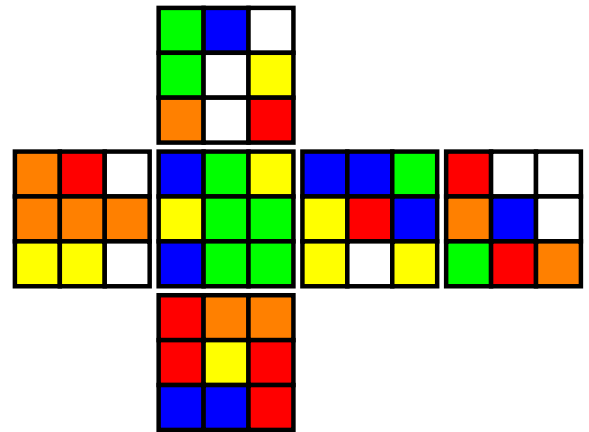
Scrambles for 2019-06-17
333fm

Competitor: _____

WCA ID: _____

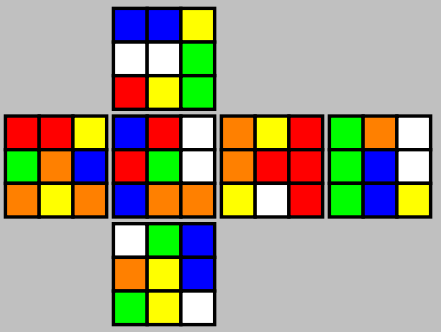
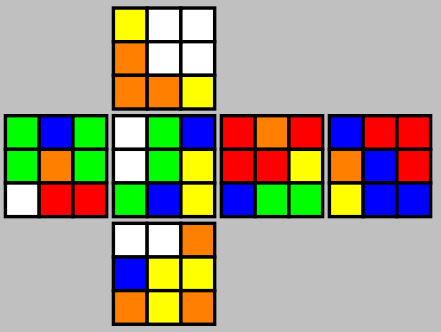
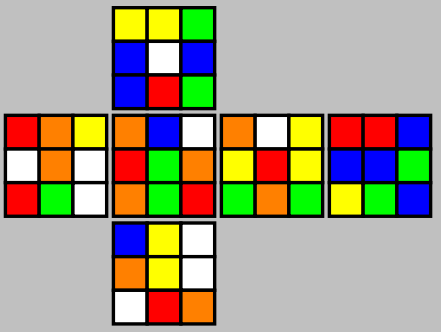
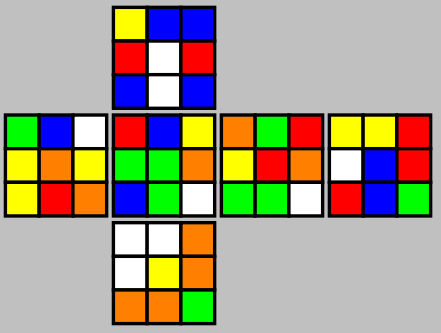
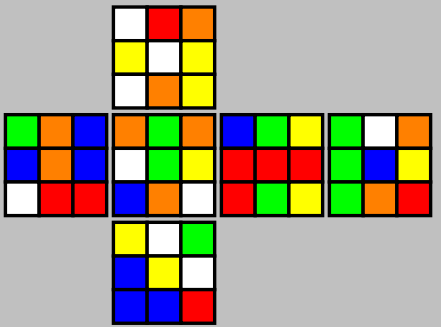
DO NOT FILL IF YOU ARE THE COMPETITOR.

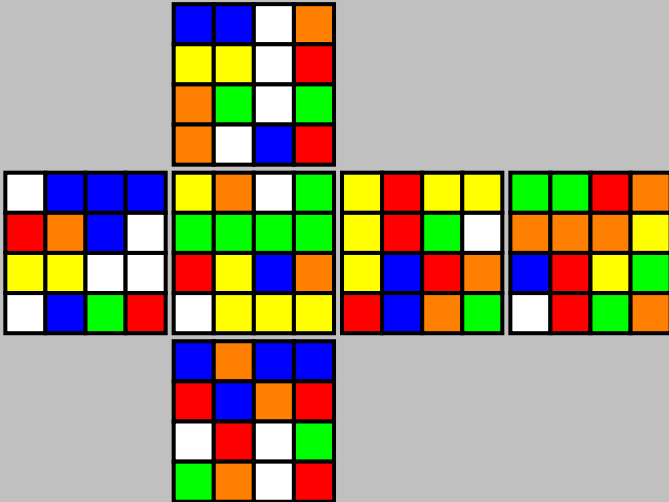
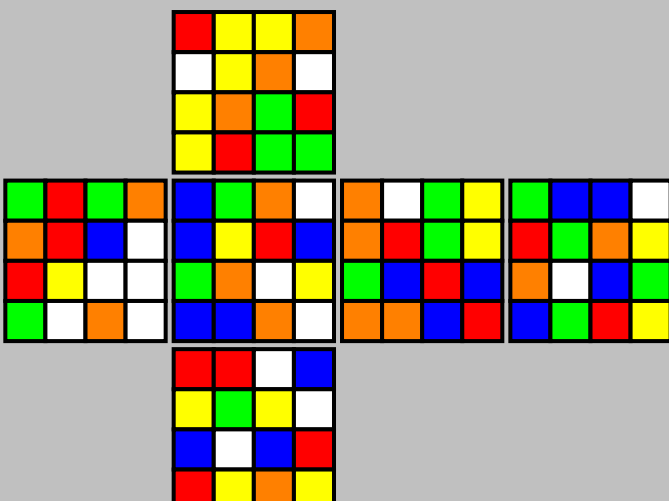
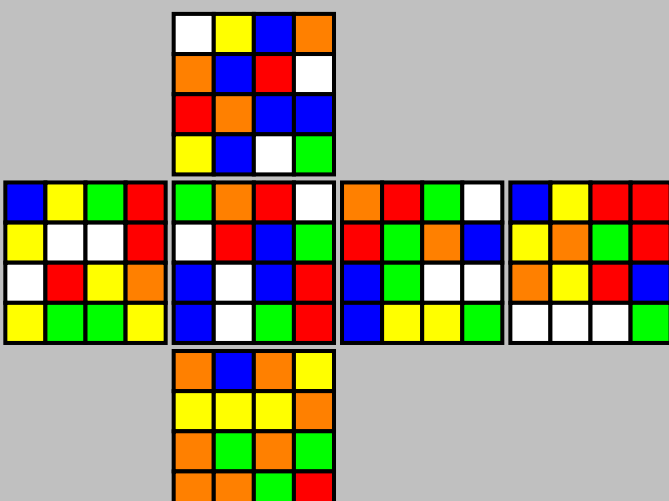
Graded by: _____ Result: ____



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

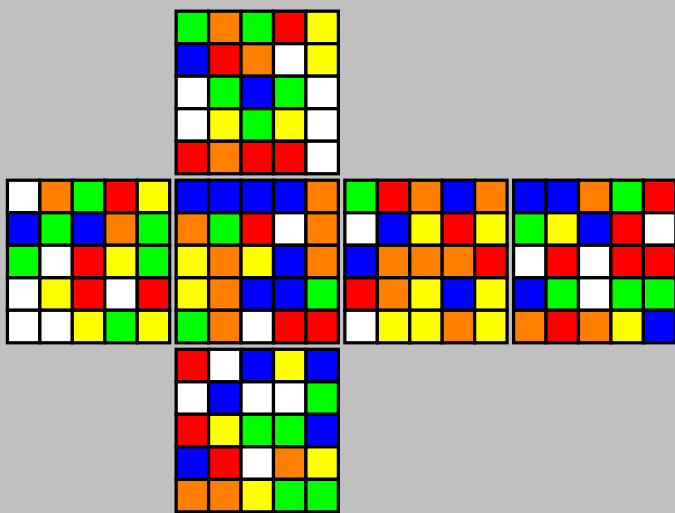
This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

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

1.	<table><tr><td>F'</td><td>U'</td><td>F'</td><td>B</td><td>L</td></tr><tr><td>U'</td><td>R</td><td>B</td><td>D'</td><td>U'</td></tr><tr><td>B</td><td>R2</td><td>D2</td><td>L2</td><td>R2</td></tr><tr><td>F</td><td>D2</td><td>B'</td><td>U2</td><td>R2</td></tr><tr><td>Uw2</td><td>Fw2</td><td>L2</td><td>Fw2</td><td>B</td></tr><tr><td>R'</td><td>Fw2</td><td>Rw2</td><td>F</td><td>R'</td></tr><tr><td>B</td><td>R2</td><td>Uw'</td><td>Rw2</td><td>L</td></tr><tr><td>B'</td><td>Rw2</td><td>B'</td><td>Rw'</td><td>B'</td></tr><tr><td>Rw2</td><td>Uw'</td><td>Fw2</td><td>U</td><td>B2</td></tr><tr><td>x2</td><td>y</td><td></td><td></td><td></td></tr></table>	F'	U'	F'	B	L	U'	R	B	D'	U'	B	R2	D2	L2	R2	F	D2	B'	U2	R2	Uw2	Fw2	L2	Fw2	B	R'	Fw2	Rw2	F	R'	B	R2	Uw'	Rw2	L	B'	Rw2	B'	Rw'	B'	Rw2	Uw'	Fw2	U	B2	x2	y				
F'	U'	F'	B	L																																																
U'	R	B	D'	U'																																																
B	R2	D2	L2	R2																																																
F	D2	B'	U2	R2																																																
Uw2	Fw2	L2	Fw2	B																																																
R'	Fw2	Rw2	F	R'																																																
B	R2	Uw'	Rw2	L																																																
B'	Rw2	B'	Rw'	B'																																																
Rw2	Uw'	Fw2	U	B2																																																
x2	y																																																			
2.	<table><tr><td>B'</td><td>R2</td><td>U2</td><td>L2</td><td>D2</td></tr><tr><td>F</td><td>D2</td><td>F</td><td>U2</td><td>L</td></tr><tr><td>B'</td><td>L'</td><td>R'</td><td>B'</td><td>L2</td></tr><tr><td>U2</td><td>L2</td><td>D'</td><td>U'</td><td>Rw2</td></tr><tr><td>Uw2</td><td>F'</td><td>L</td><td>F'</td><td>D2</td></tr><tr><td>Rw2</td><td>Fw2</td><td>L</td><td>B2</td><td>F'</td></tr><tr><td>U2</td><td>B</td><td>Uw</td><td>Fw2</td><td>U'</td></tr><tr><td>Fw2</td><td>L</td><td>Fw2</td><td>Rw</td><td>Uw</td></tr><tr><td>U</td><td>Fw2</td><td>D2</td><td>Rw2</td><td>Fw</td></tr><tr><td>z</td><td>y</td><td></td><td></td><td></td></tr></table>	B'	R2	U2	L2	D2	F	D2	F	U2	L	B'	L'	R'	B'	L2	U2	L2	D'	U'	Rw2	Uw2	F'	L	F'	D2	Rw2	Fw2	L	B2	F'	U2	B	Uw	Fw2	U'	Fw2	L	Fw2	Rw	Uw	U	Fw2	D2	Rw2	Fw	z	y				
B'	R2	U2	L2	D2																																																
F	D2	F	U2	L																																																
B'	L'	R'	B'	L2																																																
U2	L2	D'	U'	Rw2																																																
Uw2	F'	L	F'	D2																																																
Rw2	Fw2	L	B2	F'																																																
U2	B	Uw	Fw2	U'																																																
Fw2	L	Fw2	Rw	Uw																																																
U	Fw2	D2	Rw2	Fw																																																
z	y																																																			
3.	<table><tr><td>R2</td><td>F2</td><td>B2</td><td>U'</td><td>F2</td></tr><tr><td>L2</td><td>D</td><td>R2</td><td>L2</td><td>F</td></tr><tr><td>R</td><td>U2</td><td>B2</td><td>L</td><td>F2</td></tr><tr><td>L2</td><td>D'</td><td>R'</td><td>L2</td><td>F</td></tr><tr><td>Rw2</td><td>B</td><td>F2</td><td>Rw2</td><td>D</td></tr><tr><td>Fw2</td><td>F'</td><td>U</td><td>R2</td><td>Uw2</td></tr><tr><td>B2</td><td>D2</td><td>F</td><td>Rw</td><td>D'</td></tr><tr><td>L'</td><td>B'</td><td>U</td><td>Fw'</td><td>Uw2</td></tr><tr><td>Rw</td><td>Fw'</td><td>L</td><td>R'</td><td>D</td></tr><tr><td>F</td><td>y'</td><td></td><td></td><td></td></tr></table>	R2	F2	B2	U'	F2	L2	D	R2	L2	F	R	U2	B2	L	F2	L2	D'	R'	L2	F	Rw2	B	F2	Rw2	D	Fw2	F'	U	R2	Uw2	B2	D2	F	Rw	D'	L'	B'	U	Fw'	Uw2	Rw	Fw'	L	R'	D	F	y'				
R2	F2	B2	U'	F2																																																
L2	D	R2	L2	F																																																
R	U2	B2	L	F2																																																
L2	D'	R'	L2	F																																																
Rw2	B	F2	Rw2	D																																																
Fw2	F'	U	R2	Uw2																																																
B2	D2	F	Rw	D'																																																
L'	B'	U	Fw'	Uw2																																																
Rw	Fw'	L	R'	D																																																
F	y'																																																			

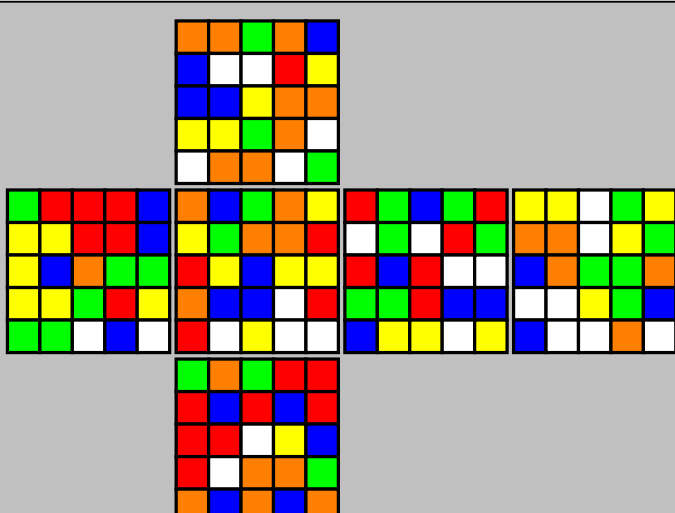
1.

D2	F	Uw2	Rw2	R2
Fw'	Bw'	B'	L2	F'
Lw	Dw'	Bw	B'	L2
Dw	R2	Lw'	Rw2	Fw2
Uw'	Dw'	F2	Uw2	Fw2
Dw	U2	Bw2	Rw	B'
D2	Lw'	Fw	L	Uw'
B	F	Dw'	D2	Uw'
B'	Fw	Uw'	B2	Uw2
F'	Bw	R	Fw	R
B'	Uw'	Bw2	U2	R2
U'	Lw'	R2	Bw'	Uw'
3Rw'	3Uw2			



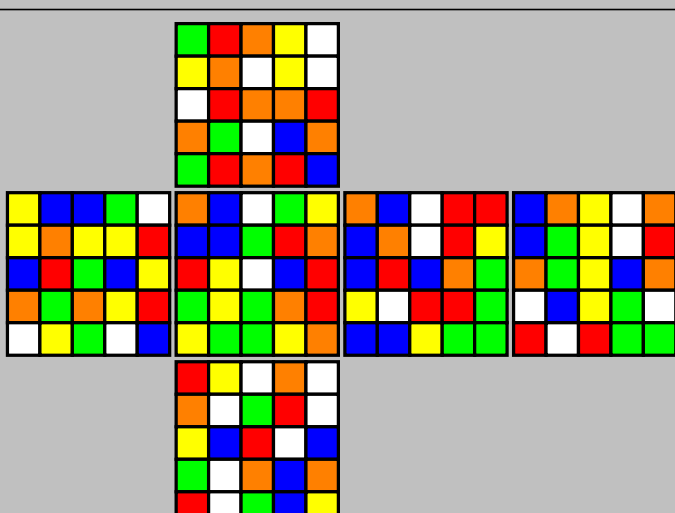
2.

Rw	U	D2	Uw	F'
Dw'	F'	Fw2	R'	D2
Dw'	Bw2	Fw	Rw2	Dw'
U'	Uw2	Rw2	L'	Uw2
B2	Rw	R'	D2	Lw
F	L2	B'	R	Uw2
Rw	D'	L	Fw	B2
Uw2	F2	Dw'	B2	Dw
D2	L'	B	U2	R'
D2	Uw'	Fw'	R'	F'
B	R2	L2	Dw'	Uw
F	Bw2	R	U'	R2
3Rw2				



3.

Fw	Rw	D'	Fw	L	R2
U	Uw	D	L2	B	Lw
Bw2	D'	L2	Rw2	D2	Rw
Fw	L2	D	L2	F	L
Lw	U'	Dw	Fw'	F2	L2
Lw'	R2	U2	Fw2	Dw	F2
Uw'	Fw	U	Rw'	D2	Fw'
R2	L2	Dw'	F2	Uw2	R
Rw'	L	Bw2	Fw	Uw2	Lw
U	Rw	R2	Dw2	Bw2	R'
3Fw	3Uw				



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

6.

U B2 F2 D B2 F2 U'

R2 U2 B D2 L2 B U'

R2 B L B2 L D' Rw2

Uw