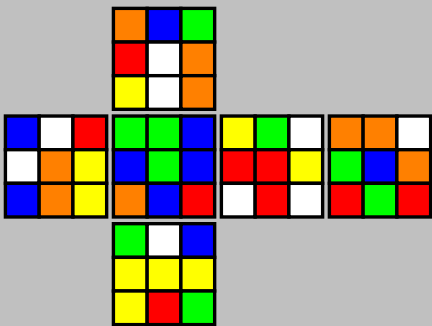
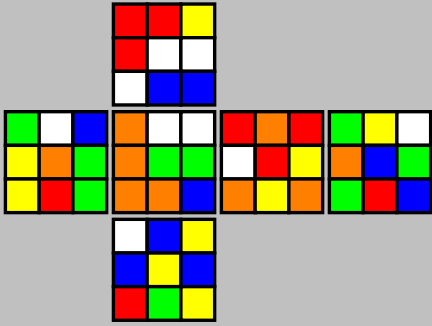
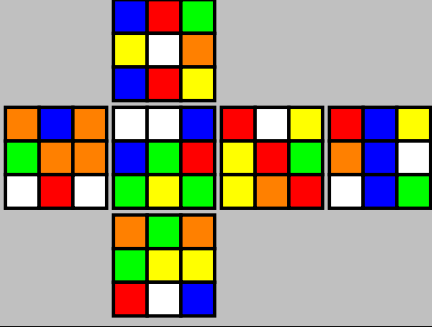
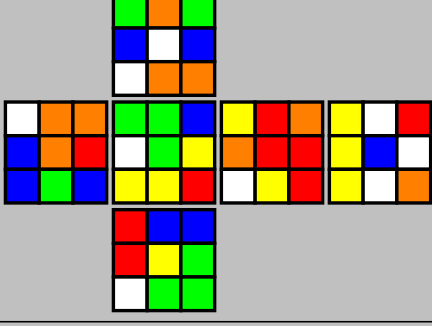
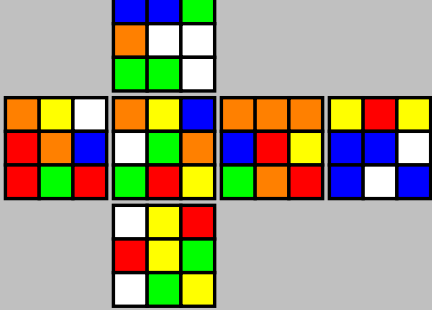
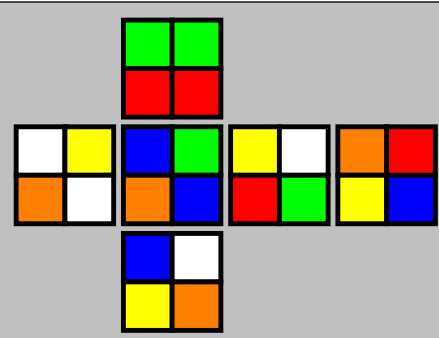
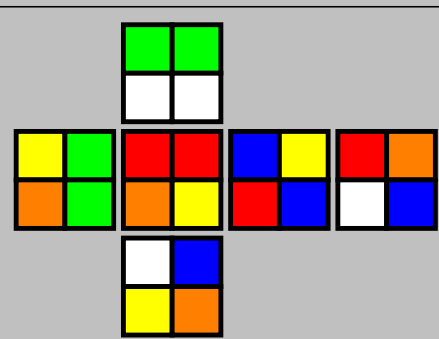
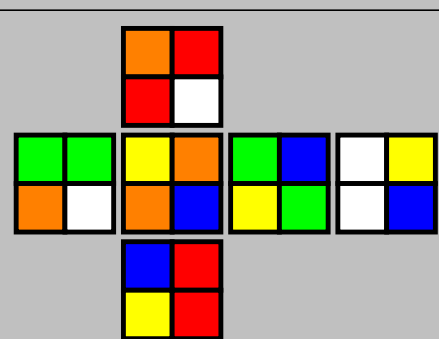
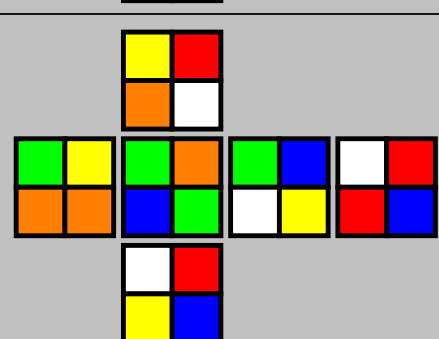
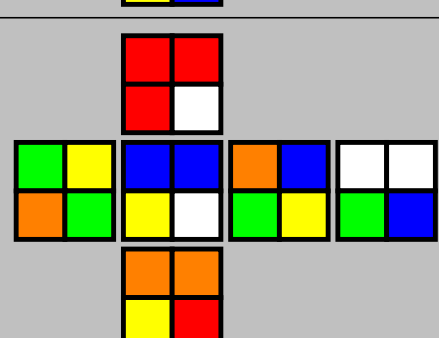
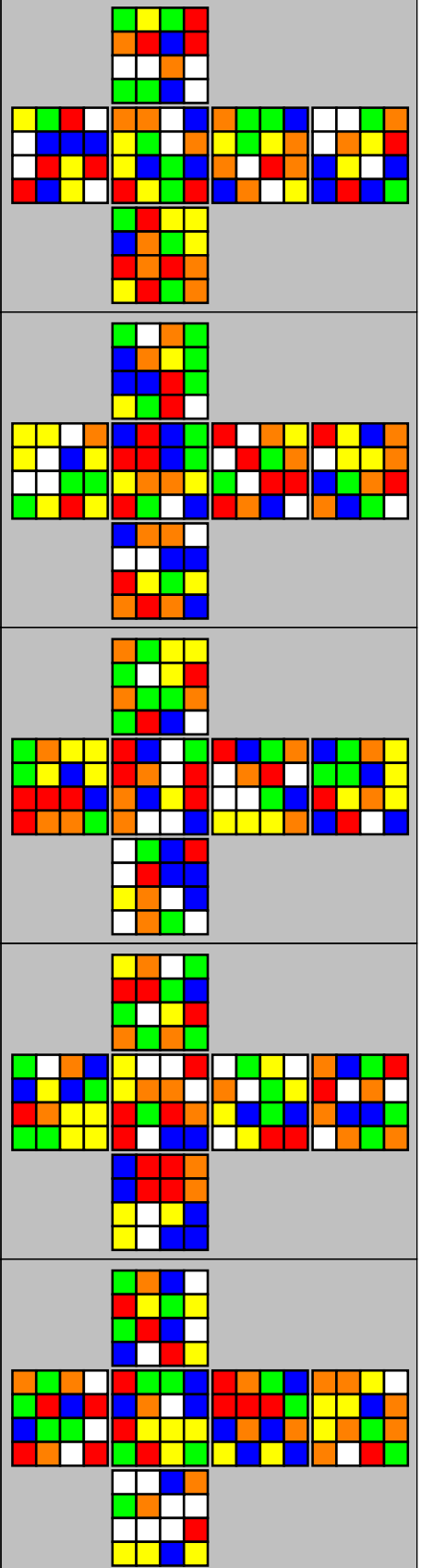
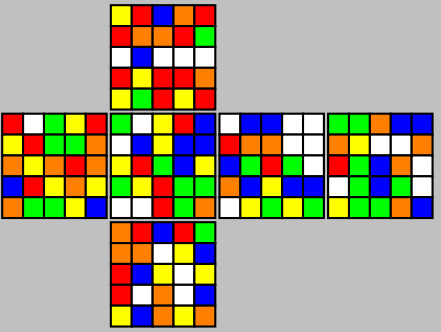
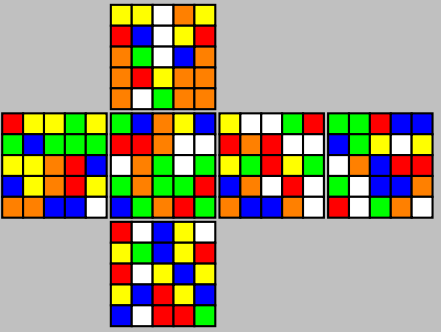
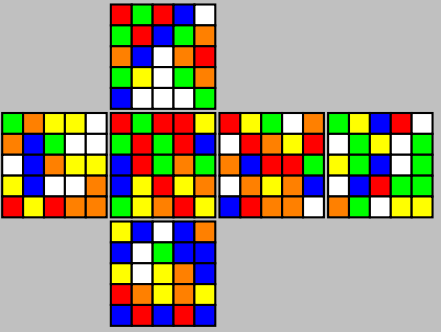
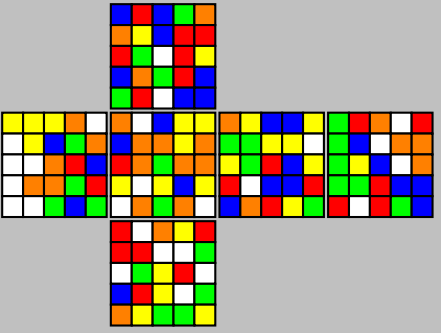
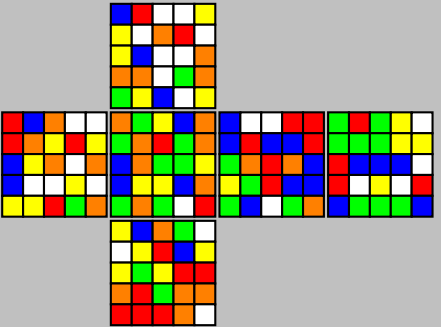


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3.	U2 R D2 R2 F2 U2 L2 F2 U2 L' B U' F2 D2 R' B L U F2 L'	
4.	D B2 D' L2 B2 U R2 F2 D' F' R U2 B2 R2 U' B F2 L' R' B'	
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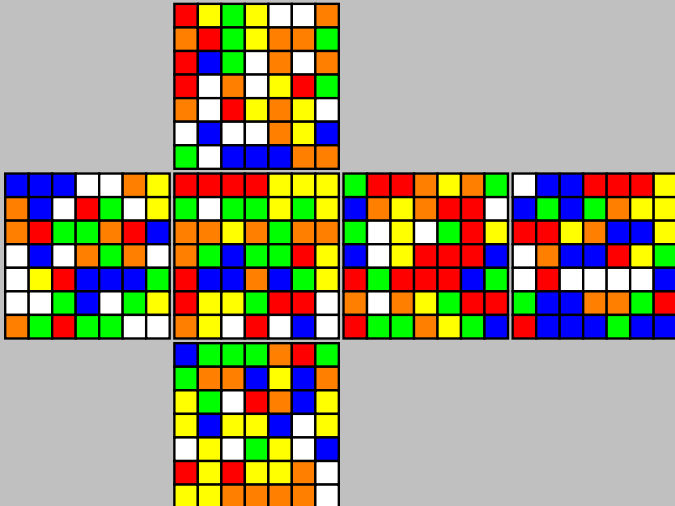
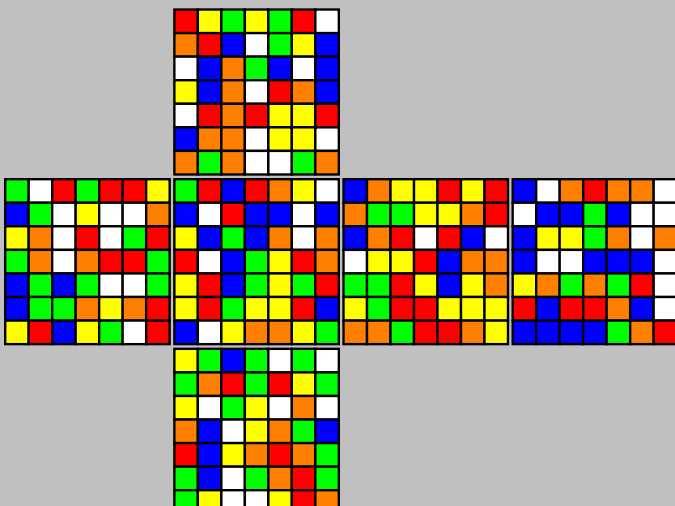
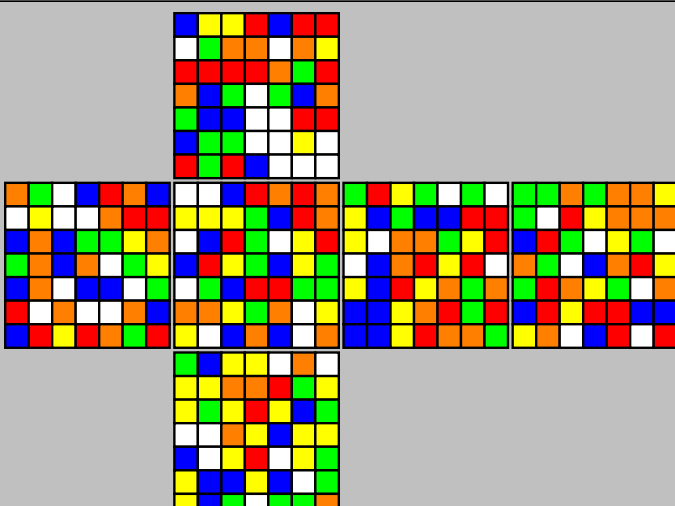
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3.	$R' F R U' R^2 F' U^2 R U' R U^2$	
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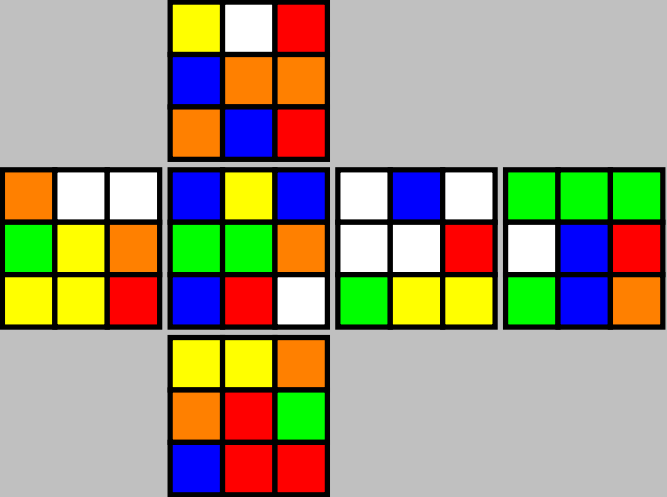
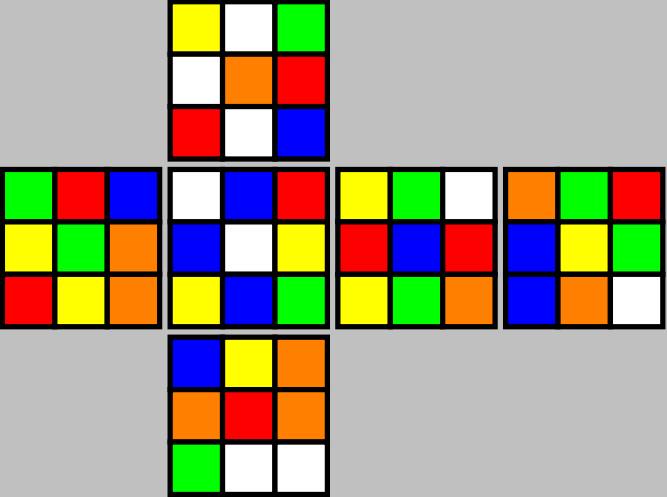
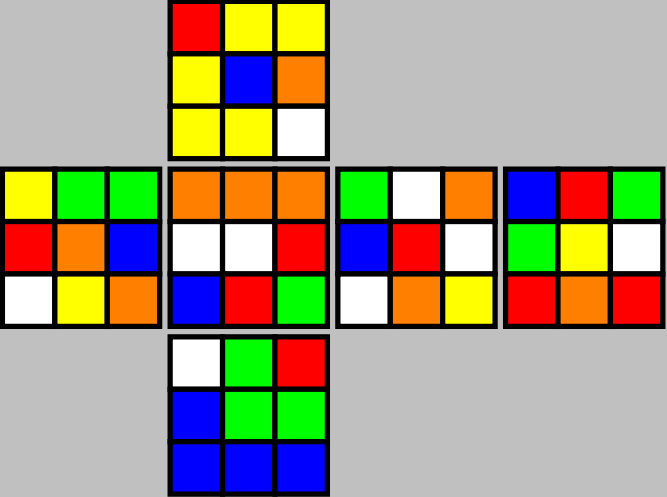
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	B'	D2	B'	D'	R		
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	L	F	U2	D'	Uw'	R	L'
	D'	Rw'	B'	R	Uw'		
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	Rw'	Fw'	B2	U2	Rw'	R	Uw'
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	L2	Fw2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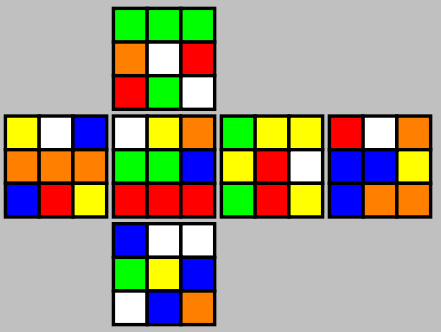
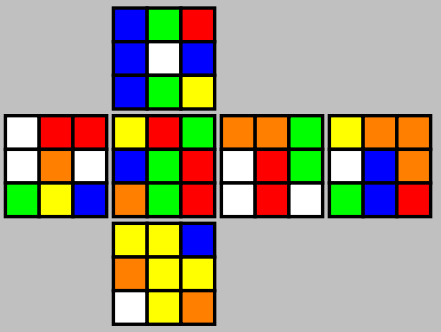
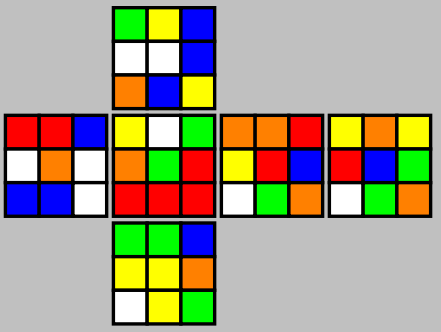
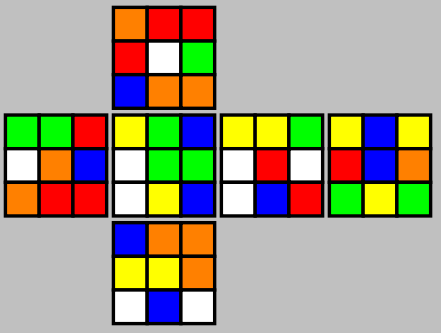
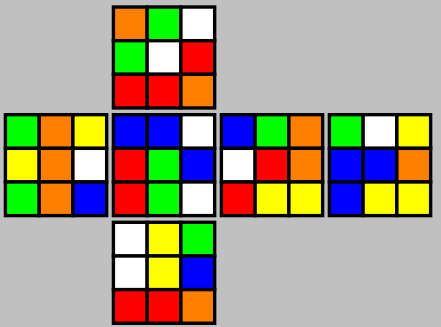


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	Rw2 Fw' U' D' B' Rw L' D' Uw2	
	Lw' R' Uw2 L' F2 Fw Rw L' R	
	U Lw2 Dw2 F' R2 L'	
2.	Dw' Bw2 Fw L Fw' L' U' R F'	
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	Lw' B' R B2 R L' Lw Rw2 Bw'	
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3.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

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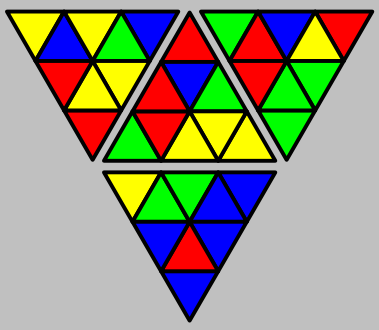
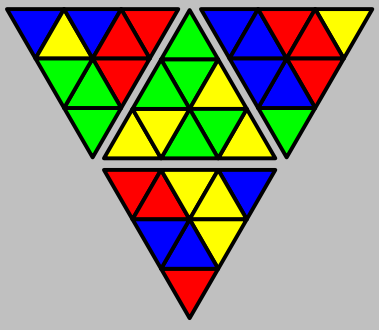
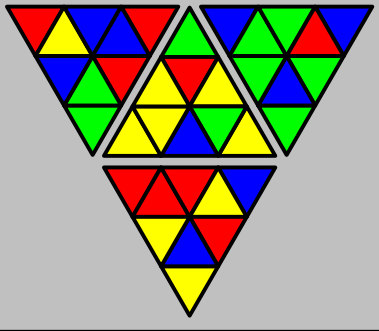
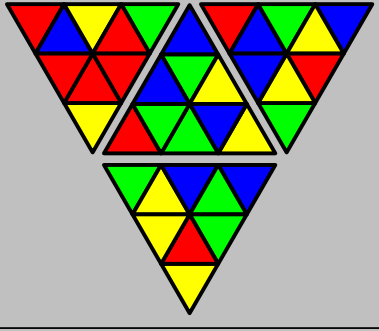
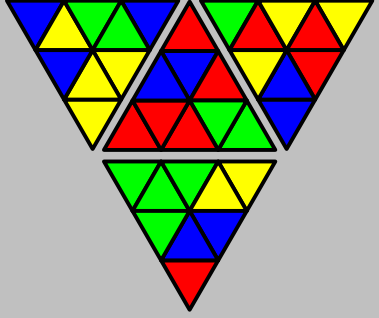
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B'	U'	Bw'	R2	U	R2	L2																																																																																																					
3Dw2	B'	L2	D	3Bw'	Rw'	3Fw																																																																																																				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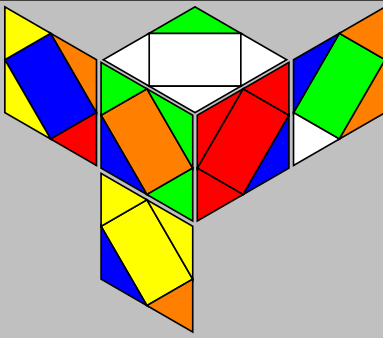
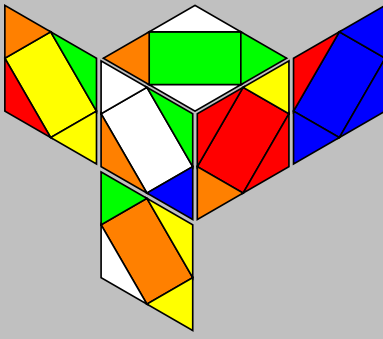
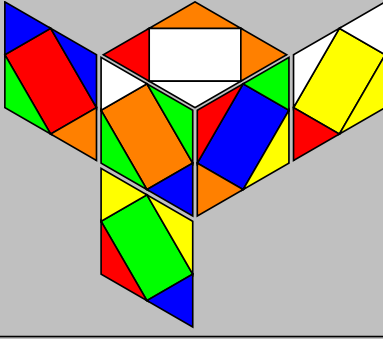
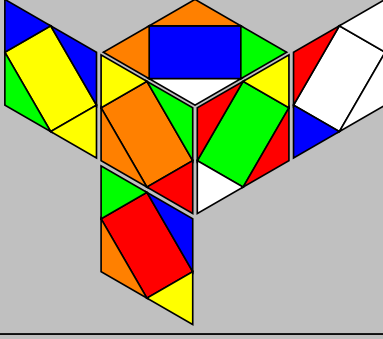
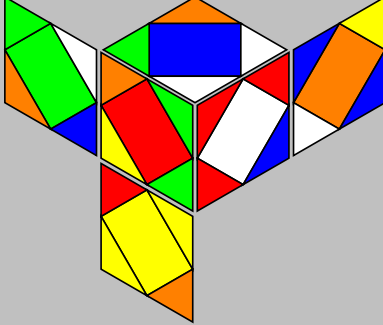
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2.	<p>F2 D U R2 B2 L2</p> <p>R2 D B2 F' L U'</p> <p>L2 B L' R' F' L2</p> <p>D' R Fw Uw</p>	
3.	<p>F2 U R2 B2</p> <p>D F2 U' F2</p> <p>U F' D B2</p> <p>L2 F' L2 R</p> <p>B' L' R U</p> <p>Rw'</p>	

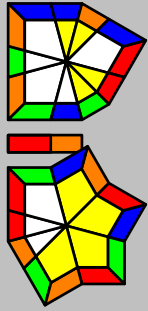
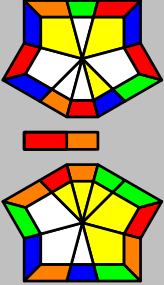
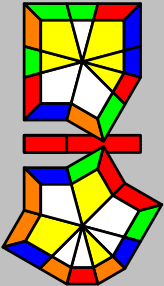
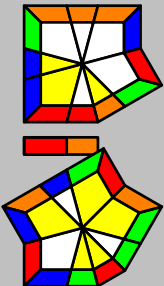
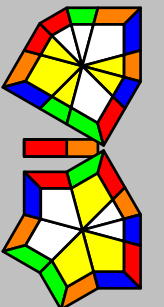
1.	U2 L2 D L2 U' F2 D2 F2 U2 R F' U' L' F' U' B' L2 U B2 F2	
2.	B2 D' B2 D B2 U' R2 U F2 R2 F2 L' R' B U' L' U B2 U' L' R2	
3.	F B U2 L2 U' B' L U2 D' L F' U2 B U2 D2 L2 U2 B U2 L2	
4.	B2 D2 F2 R2 B2 U' R2 U L2 B2 D' R D' B U2 F L' D R2 B' D2	
5.	L' F2 U2 B2 D2 R D2 F2 R' B2 L2 B L2 U' R F' U' B	

2019-05-30

pyram
Scrambles for 2019-05-30

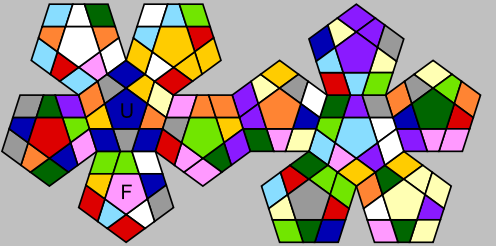
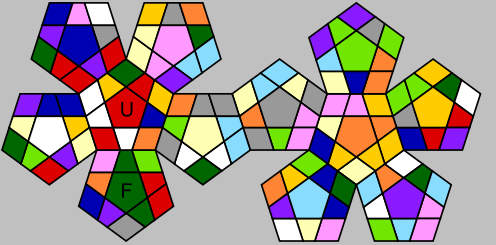
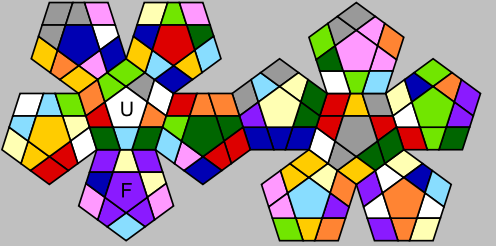
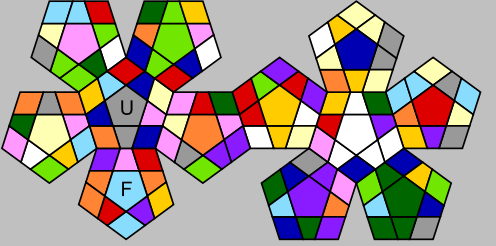
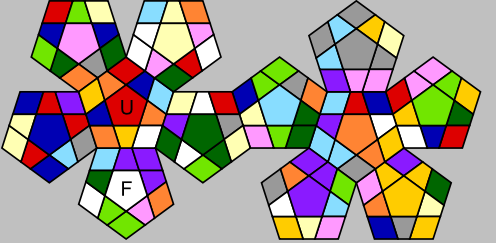
1.	$R' U B' L' U B R' B L U' L u l' b$	
2.	$B U R L' R' U L U' L' U' B r b'$	
3.	$B' R L' B U R' L' U' L B' U' u r b$	
4.	$L' B' U' L R' U L R B' R' L' u l r' b'$	
5.	$L B' R' B' L B' U R B L' B u b'$	

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

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

2019-05-30

minx
Scrambles for 2019-05-30

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	

2019-05-30

 clock
 Scrambles for 2019-05-30

1.	UR3- DR0+ DL5- UL5- U2- R2+ D1- L3+ ALL1+ y2 U1+ R3- D4- L1- ALL1+ DR UL	
2.	UR4+ DR5+ DL4- UL4- U3+ R1+ D0+ L4+ ALL1- y2 U4- R2- D6+ L2+ ALL2+ DL UL	
3.	UR6+ DR1- DL4- UL5+ U6+ R5- D1- L1+ ALL5- y2 U2+ R0+ D6+ L2+ ALL5+	
4.	UR5- DR5+ DL3+ UL6+ U3+ R0+ D1- L3+ ALL2+ y2 U5+ R6+ D6+ L2- ALL5- DL	
5.	UR0+ DR2+ DL6+ UL6+ U5- R2- D2+ L2- ALL4+ y2 U4+ R4+ D0+ L6+ ALL5+ 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]

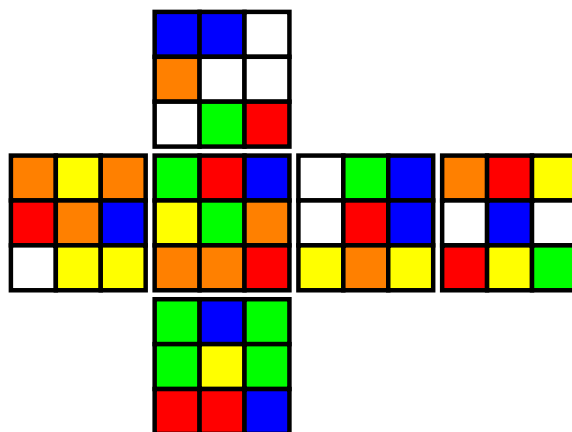
Scrambles for 2019-05-30
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: _____



Scramble: R' U' F R2 D2 F U2 B' U2 B' D2 B2 U' R2 U F U L F2 U F R2 B' R' U' F

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the 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.
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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]

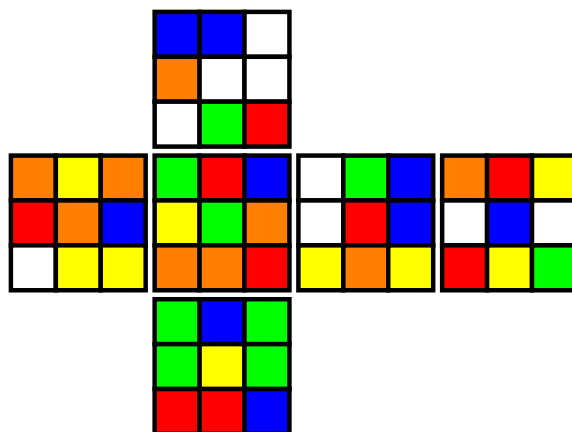
Scrambles for 2019-05-30
333fm

Competitor: _____

WCA ID: _____

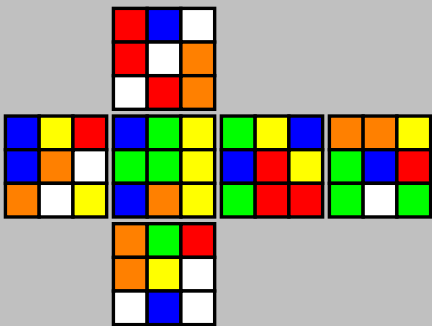
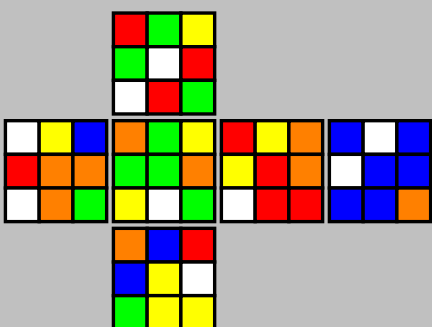
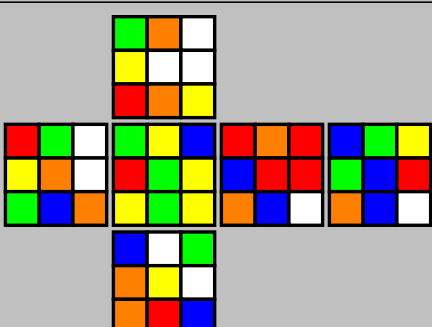
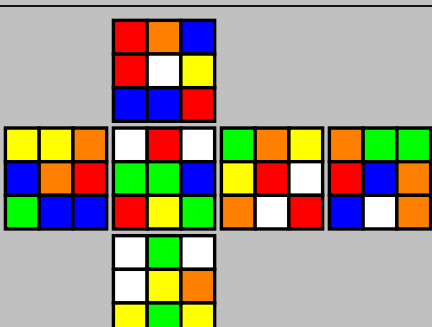
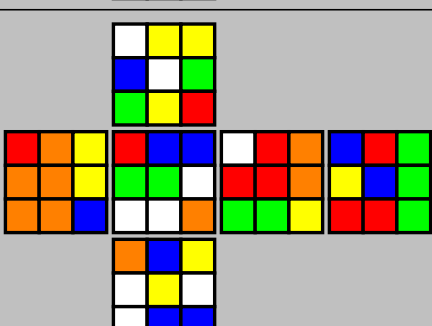
DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: _____

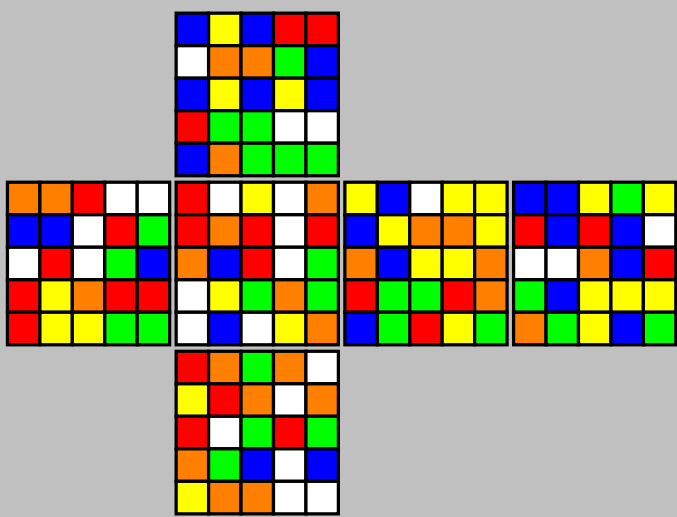
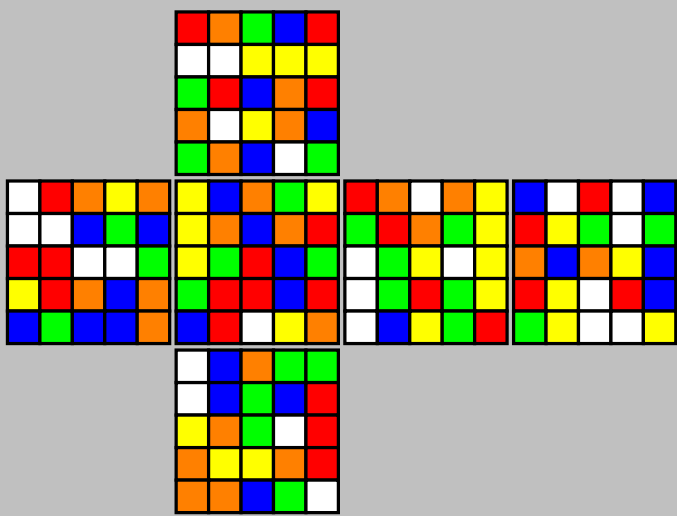
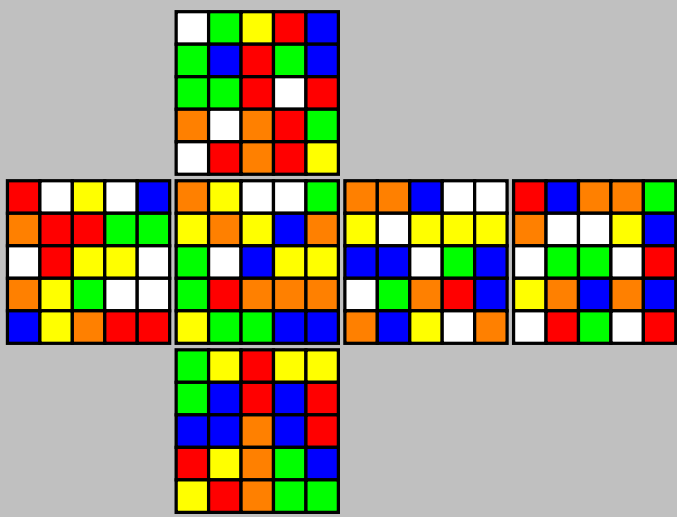


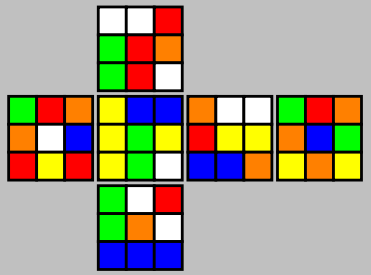
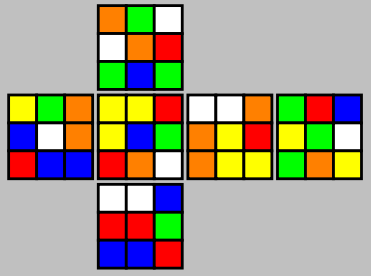
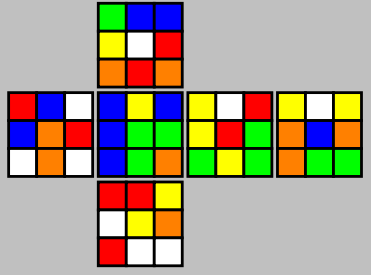
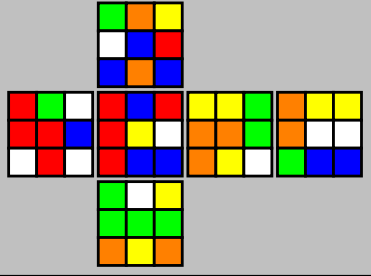
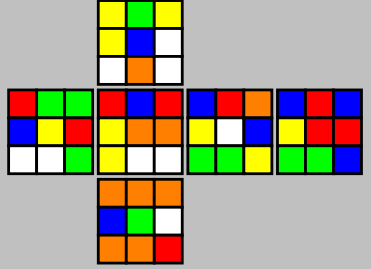
Scramble: R' U' F R2 D2 F U2 B' U2 B' D2 B2 U' R2 U F U L F2 U F R2 B' R' U' F

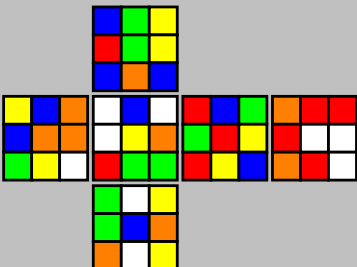
This image shows a full page of blank graph paper. The grid consists of evenly spaced horizontal and vertical lines forming small squares across the entire area. There are no margins, text, or other markings on the page.

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

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

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

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

6.	<div>R2 D2 F2 R2 U2 B2 F2 U' L2</div> <div>D' U2 R' F2 L2 D' R F R</div> <div>B' L' D' Rw</div>	
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