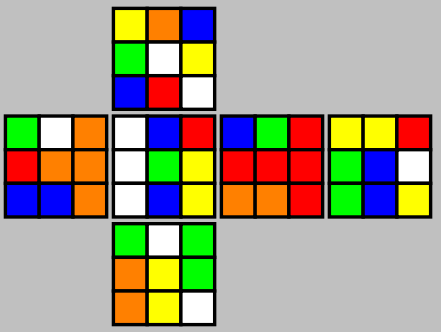
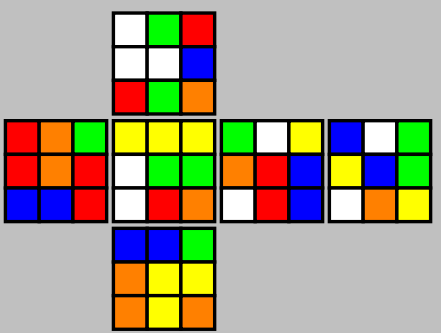
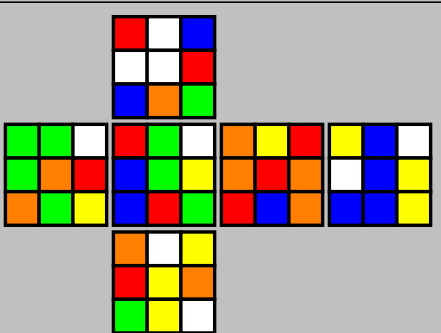
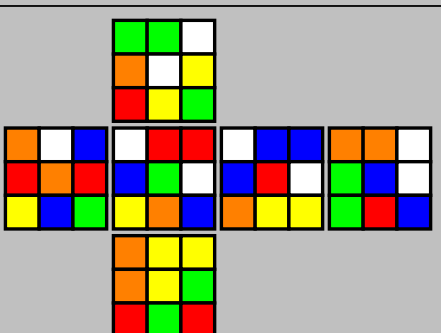
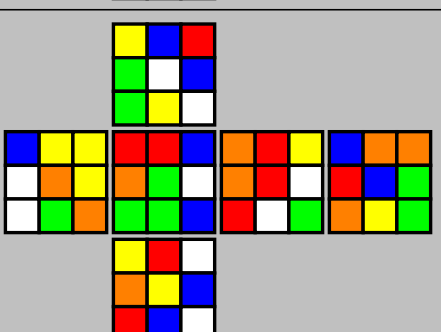
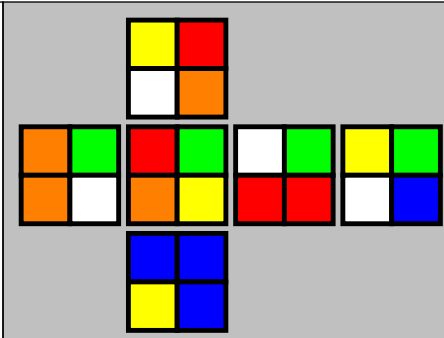
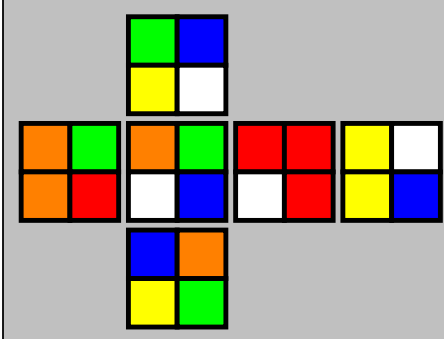
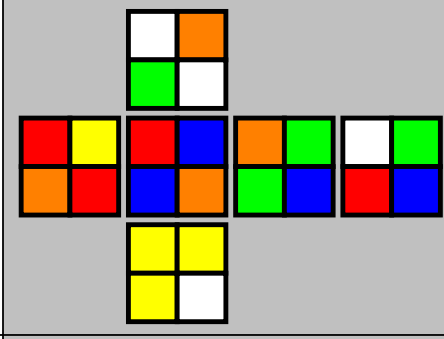
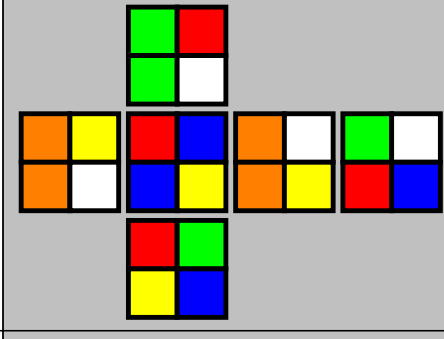
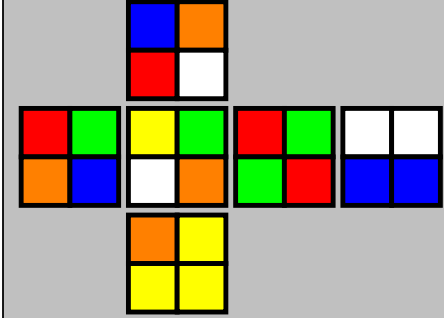
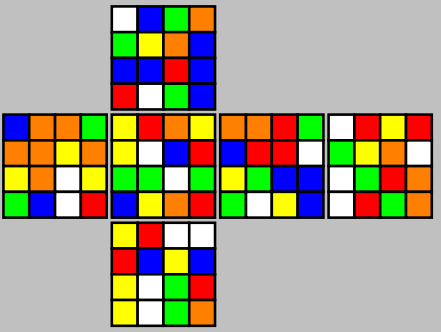
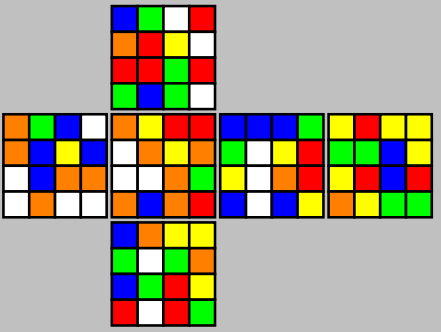
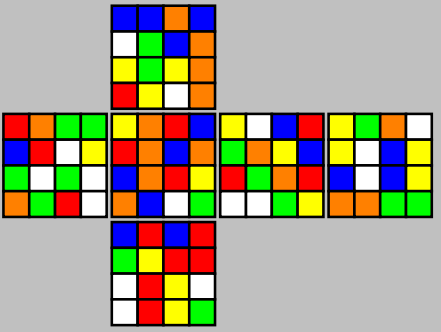
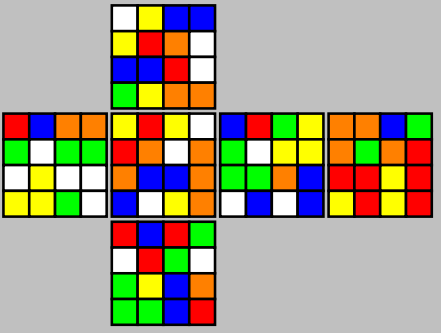
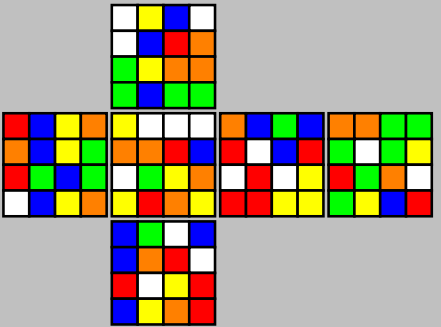


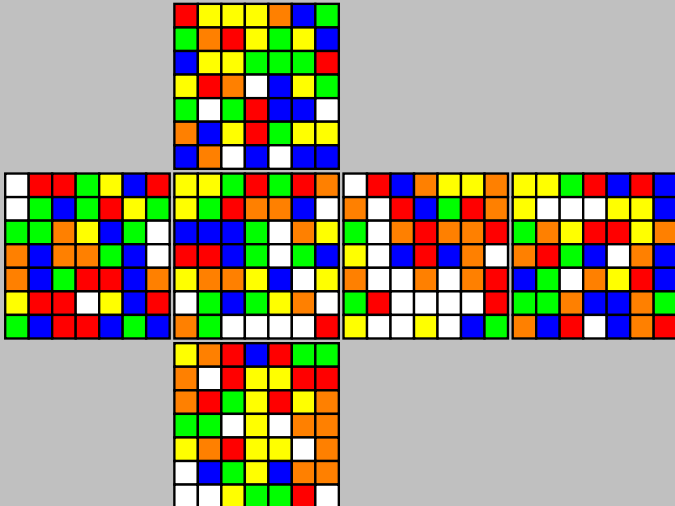
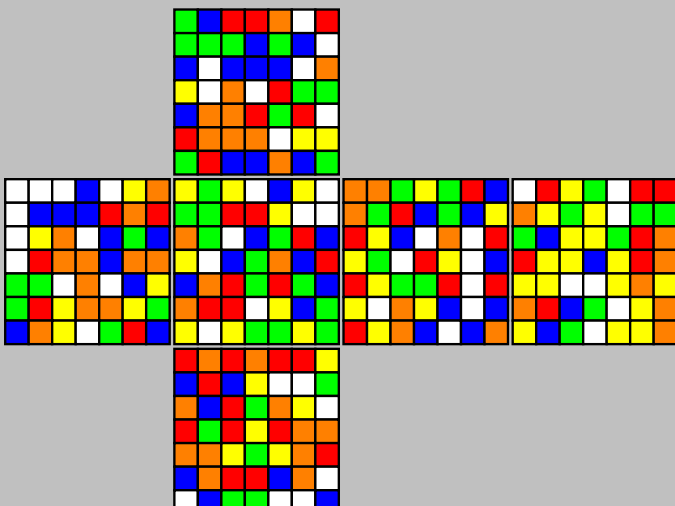
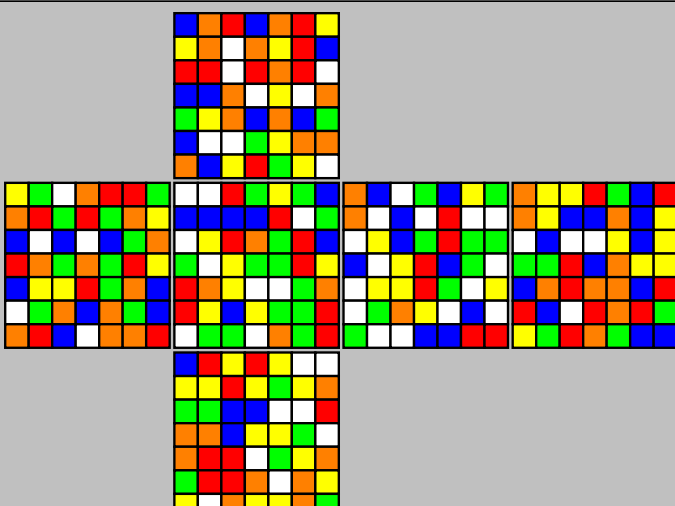
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3.	U2 B2 U2 D' R2 F B' L' D' F' L2 B2 R2 F D2 B' L2 F R2 D2	
4.	F2 R F2 U2 R2 D2 U2 R2 F R2 B2 F L D2 B' D U2 R U	
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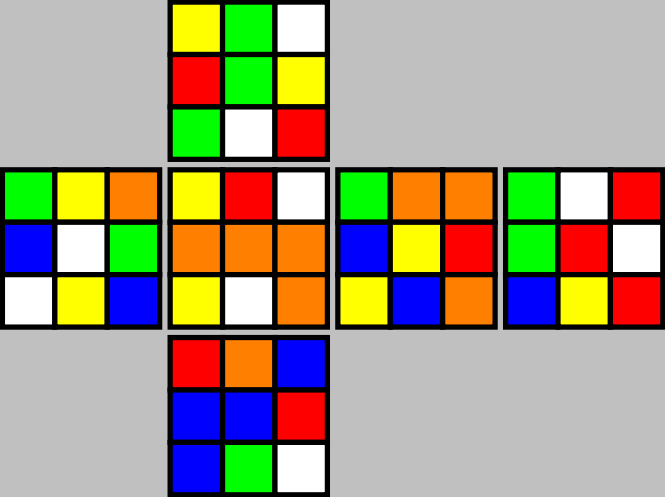
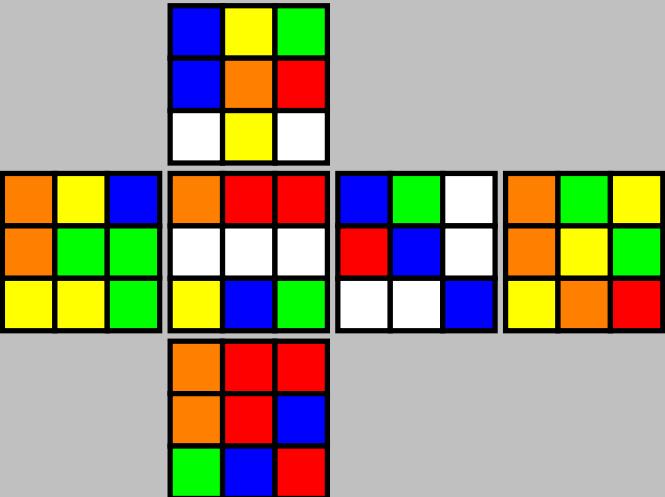
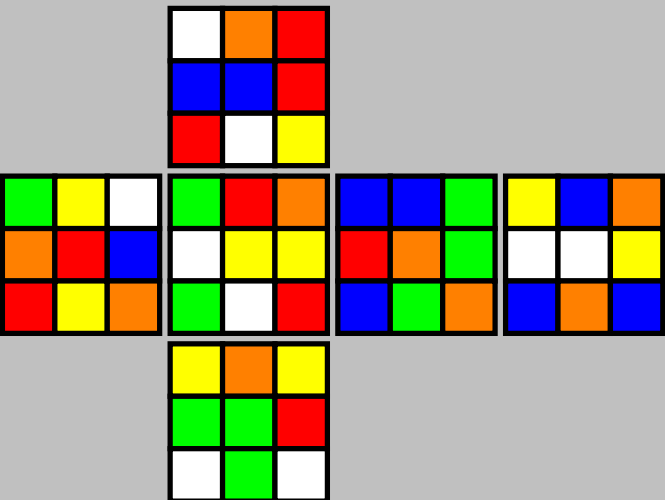
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3.	$R F' U' R^2 U' F R' U' R^2 U' R'$	
4.	$U' R^2 F R' F U' F' U^2 R U' R'$	
5.	$R U' R U' R^2 F R F U' R^2 U^2$	

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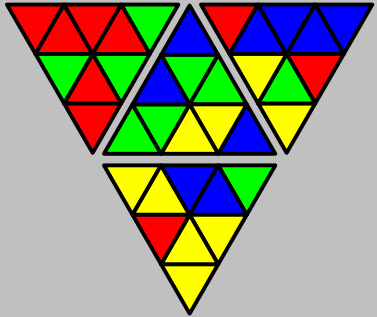
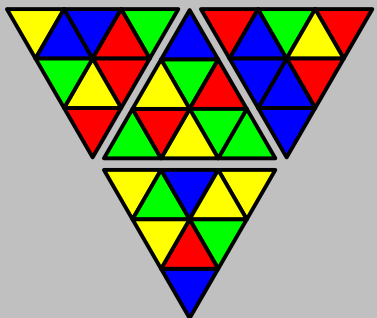
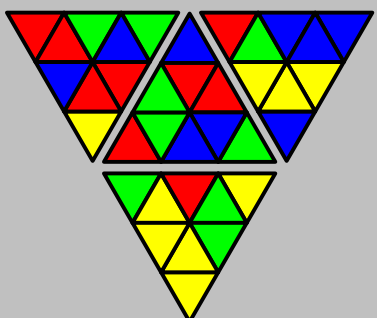
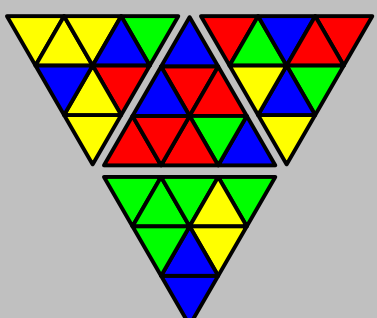
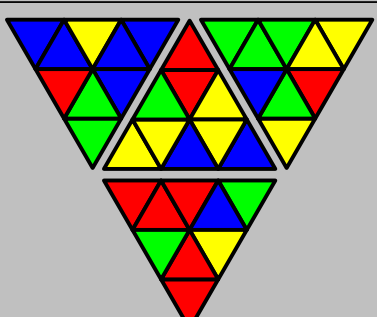
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2.	Bw2 Uw Bw R2 Uw2 B' Lw2 U Dw2 R Lw F U R' Rw' B' U D Uw' L2 Dw B' Bw' Fw' R2 Lw' Dw' Uw' D' Rw D2 Uw' R F Dw R L2 U F2 B Uw' R' Dw' Lw2 U B Lw2 Fw' Uw2 B2 Rw' Lw2 Bw U' L2 Lw U' D' Rw L	
3.	F' L2 Rw' Lw2 Uw' Bw' B Uw' Bw2 Rw R' B' Rw2 L2 Dw B2 Bw'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

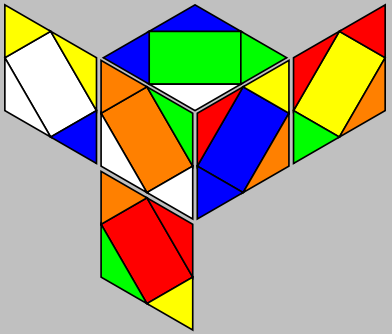
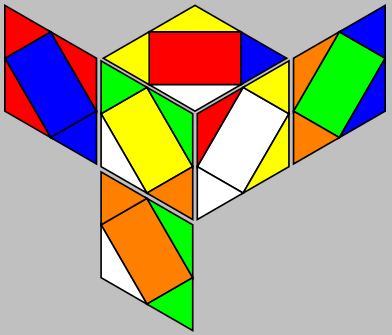
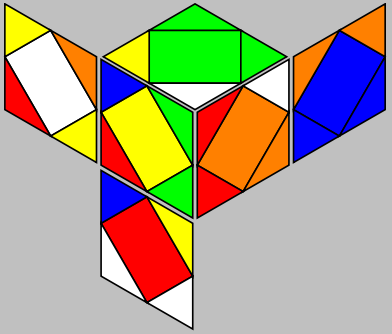
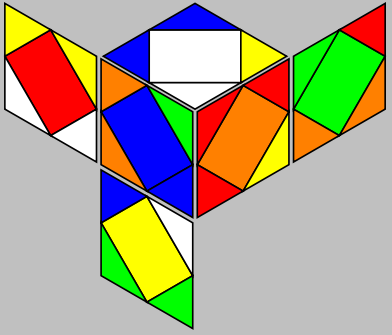
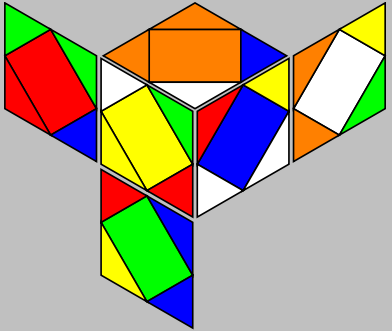
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	3Rw'	3Fw'	Fw	F2	Dw2	3Fw2
	B'	U	3Fw2	Fw	Uw2	R2
	3Rw	3Uw	D2	F2	3Uw	Dw'
	U	Bw2	3Rw	D2	3Fw2	3Rw2
	Fw2	Dw	Rw	L2	U2	Fw2
	Rw'	R'	Bw'	F	R	Bw'
	B	3Uw2	Lw2	Bw2	B	L'
	R'	Dw	B'	F'	D'	Dw
	3Rw2	Lw'	R	Dw2	B	R
	Rw'	U	Fw2	Bw'	Dw'	Lw'
	D	Lw2				
2.	3Rw2	B2	Dw'	3Uw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

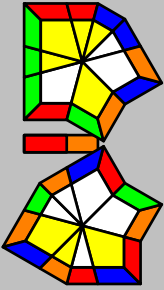
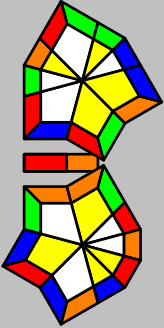
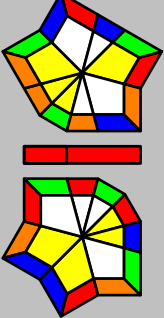
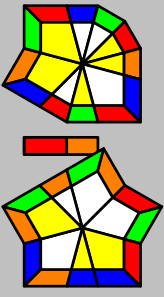
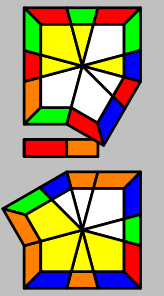
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L'	Lw2	B2	3Lw	Dw2	3Rw	R2																																																																																																					
B'	Bw2	3Bw	R2	U2	Bw'	3Lw'																																																																																																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

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

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

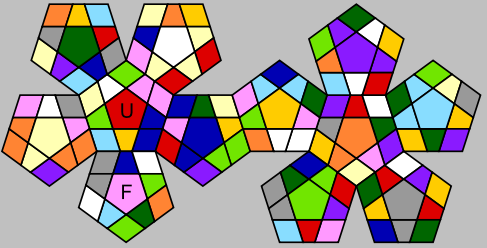
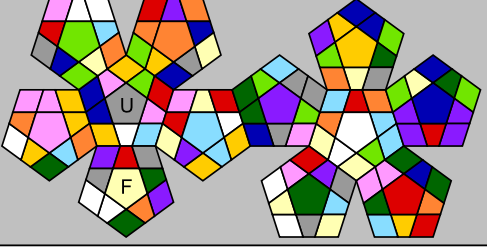
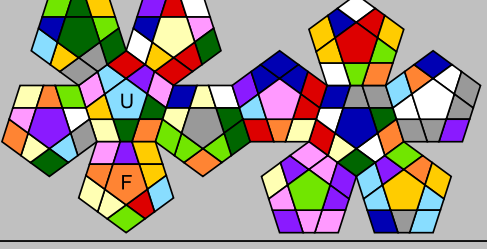
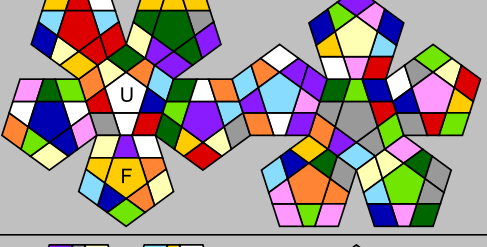
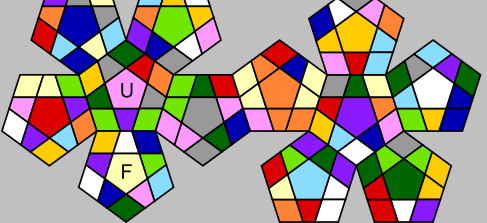
1.	U' R' B U L' U' R' U' B' U' L u r	 A pyramid diagram consisting of two large triangles pointing downwards. The top triangle is composed of 16 smaller triangles, and the bottom triangle is composed of 10 smaller triangles. The colors of the triangles are red, green, blue, and yellow. The top triangle has a red center, and the bottom triangle has a yellow center.
2.	R' L' U L' B' L' B' U L U R u l' b	 A pyramid diagram consisting of two large triangles pointing downwards. The top triangle is composed of 16 smaller triangles, and the bottom triangle is composed of 10 smaller triangles. The colors of the triangles are red, green, blue, and yellow. The top triangle has a red center, and the bottom triangle has a yellow center.
3.	R' U' L' B' R B' U' R' U L B' u' l r	 A pyramid diagram consisting of two large triangles pointing downwards. The top triangle is composed of 16 smaller triangles, and the bottom triangle is composed of 10 smaller triangles. The colors of the triangles are red, green, blue, and yellow. The top triangle has a red center, and the bottom triangle has a yellow center.
4.	B L B' U L U R L B' R' L u' r'	 A pyramid diagram consisting of two large triangles pointing downwards. The top triangle is composed of 16 smaller triangles, and the bottom triangle is composed of 10 smaller triangles. The colors of the triangles are red, green, blue, and yellow. The top triangle has a red center, and the bottom triangle has a yellow center.
5.	B R' U' L' U' B U R' L B' L' r	 A pyramid diagram consisting of two large triangles pointing downwards. The top triangle is composed of 16 smaller triangles, and the bottom triangle is composed of 10 smaller triangles. The colors of the triangles are red, green, blue, and yellow. The top triangle has a red center, and the bottom triangle has a yellow center.

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

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

2019-06-12

minx
Scrambles for 2019-06-12

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

2019-06-12

 clock
 Scrambles for 2019-06-12

1.	UR1- DR1+ DL2+ UL4- U5+ R4+ D3- L5- ALL2+ y2 U6+ R5- D3- L4+ ALL3+ UR UL	
2.	UR2- DR2+ DL1+ UL6+ U5+ R0+ D2- L3- ALL3+ y2 U5- R4- D1- L4- ALL4- DR DL	
3.	UR0+ DR4- DL2+ UL3+ U4- R2+ D5+ L5+ ALL6+ y2 U5+ R3- D3+ L3+ ALL2- UR DR DL	
4.	UR4+ DR5- DL1+ UL1- U1+ R6+ D3+ L2- ALL2- y2 U6+ R2+ D3+ L4- ALL1+	
5.	UR1+ DR2+ DL6+ UL0+ U0+ R3- D3- L5- ALL0+ y2 U2- R5- D5- L0+ ALL4+ UR	

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]

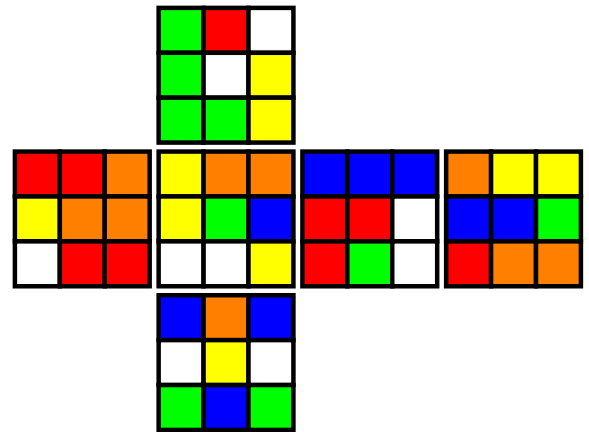
Scrambles for 2019-06-12
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F D2 R2 U' R2 D L2 B2 D F2 U' F L' D L2 U' B D2 F2 L B F2 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 page. There are no margins, text, or other markings present.

Fewest Moves

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

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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]

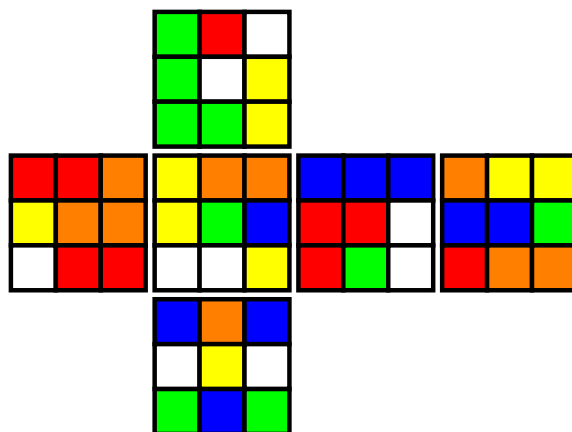
Scrambles for 2019-06-12
333fm

Competitor: _____

WCA ID: _____

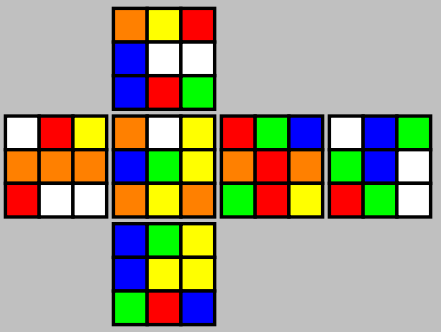
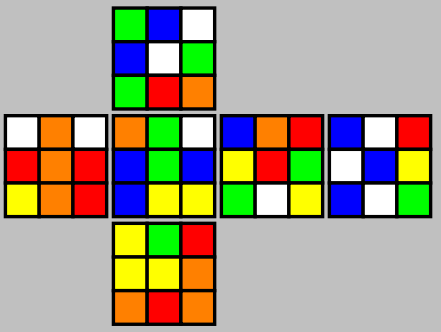
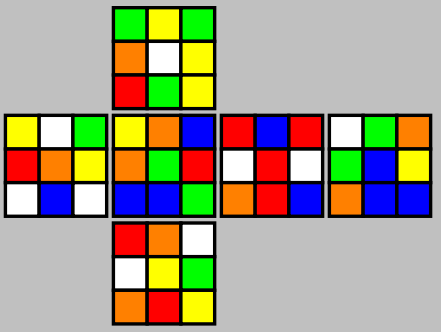
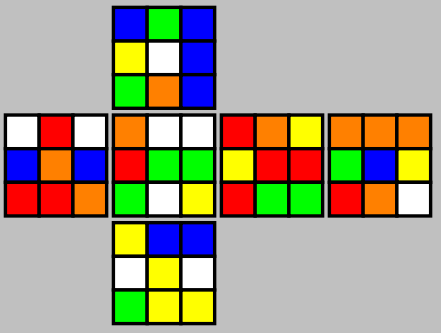
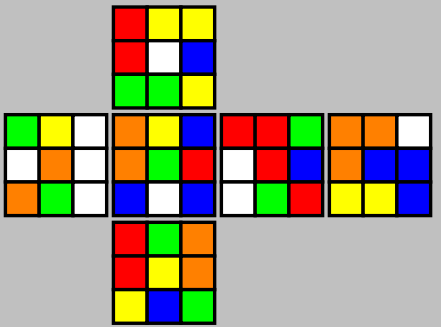
DO NOT FILL IF YOU ARE THE COMPETITOR.

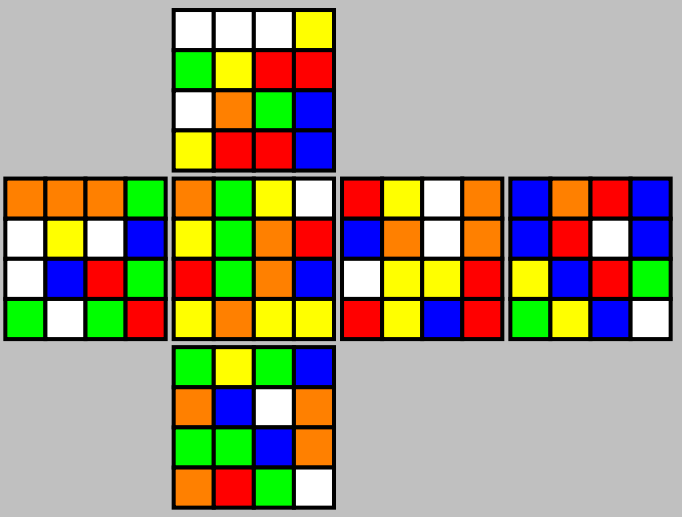
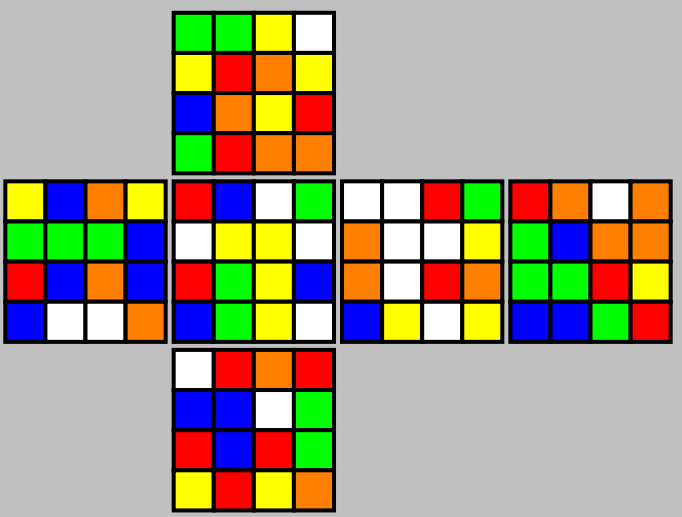
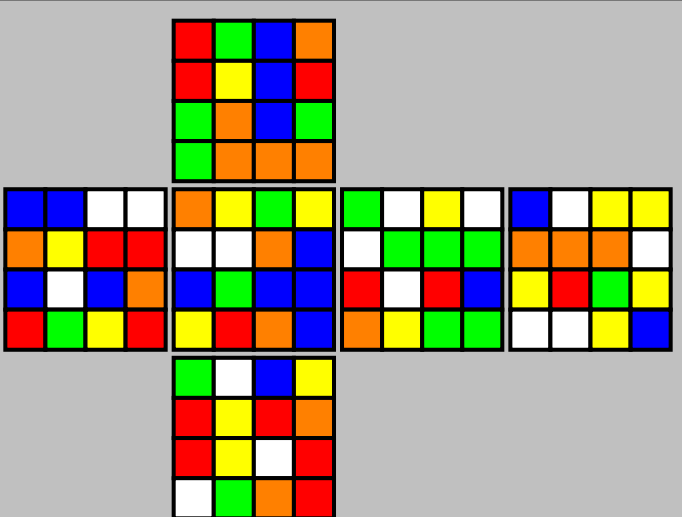
Graded by: _____ Result: _____

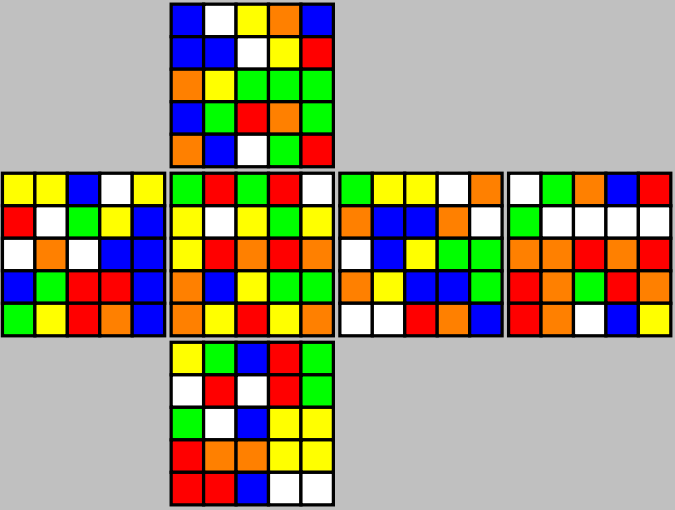
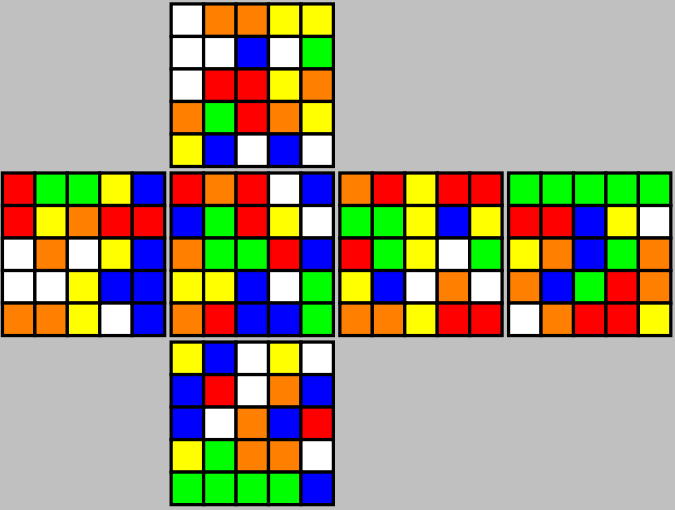
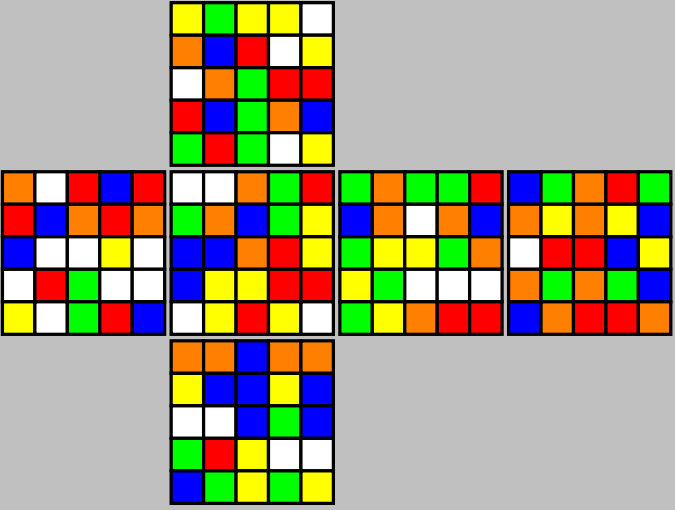


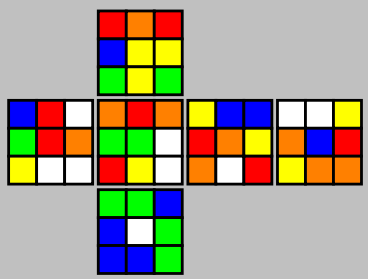
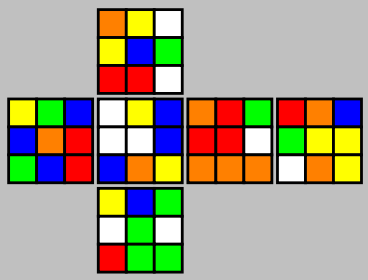
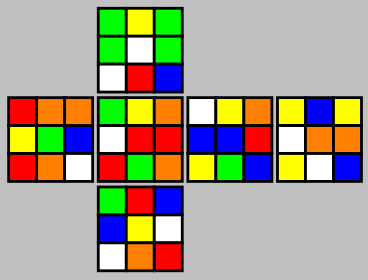
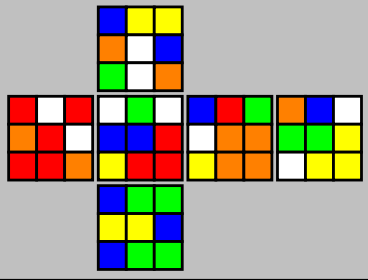
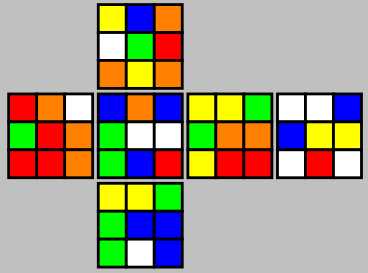
Scramble: R' U' F D2 R2 U' R2 D L2 B2 D F2 U' F L' D L2 U' B D2 F2 L B F2 R' U' F

[illegible]

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

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

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

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

6.	F2	R2	D2	L	D2	R	F2
	L'	U2	L2	B'	U	L	U
	B'	D'	U	F	L2	R	B
	Rw'	Uw2					