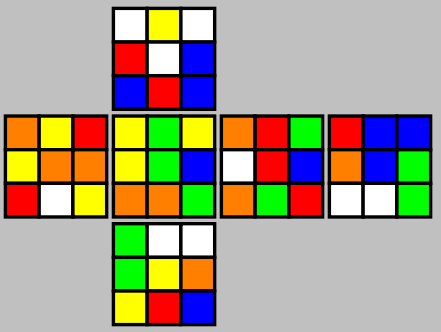
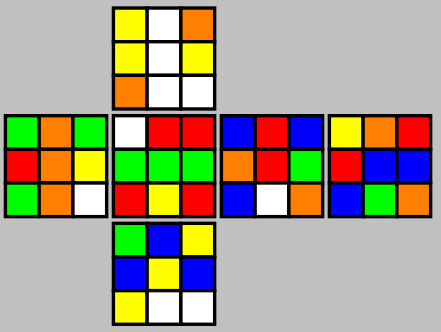
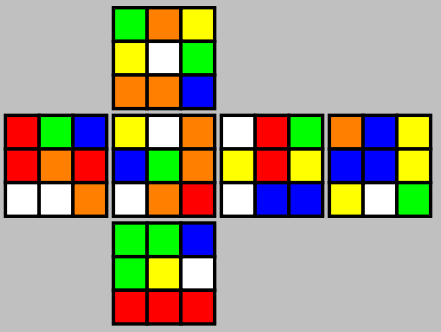
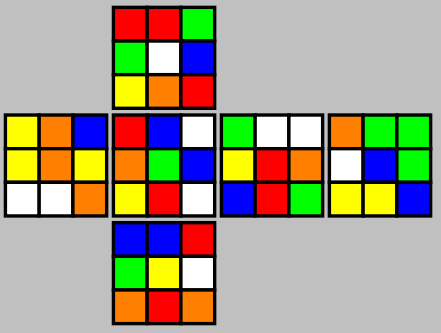
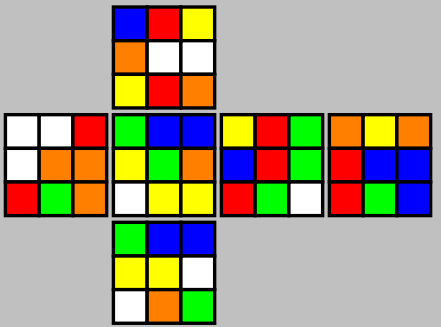
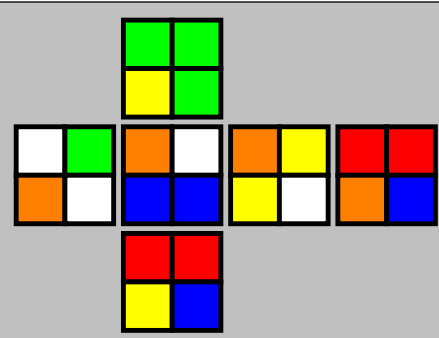
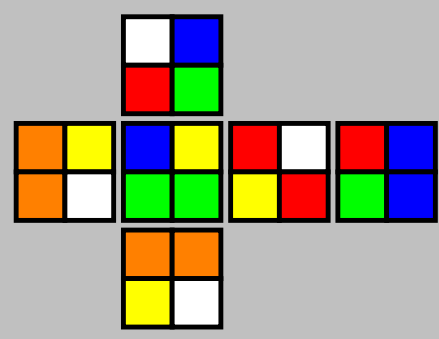
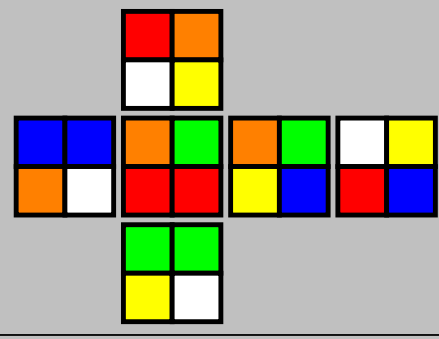
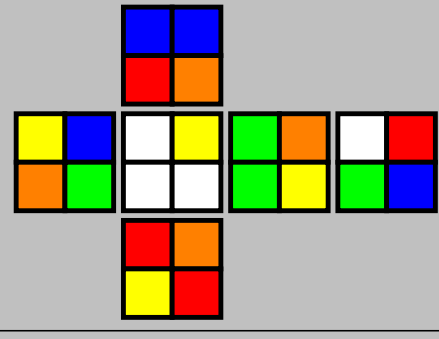
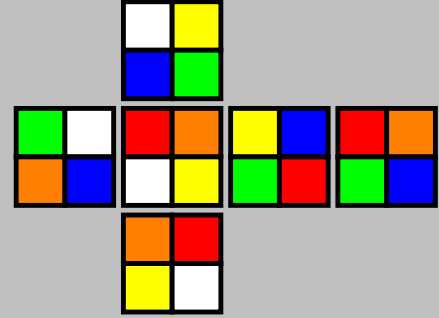
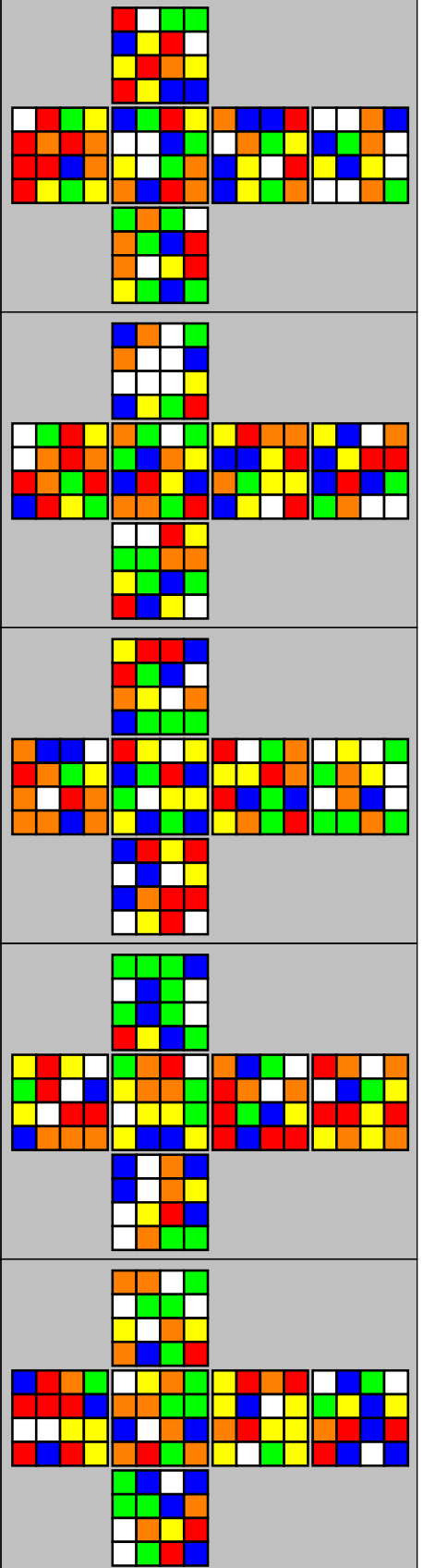


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3.	U2 B2 U2 B' R' U2 R2 D2 L F' D F' L2 F' L2 B' L2 F2	
4.	B2 U2 B2 L2 B2 R' D2 L' F D' B' D' B D B D L' B' U2	
5.	R2 D2 R U2 L U2 L' U2 R' F' R D U B' F2 R2 U' B2	

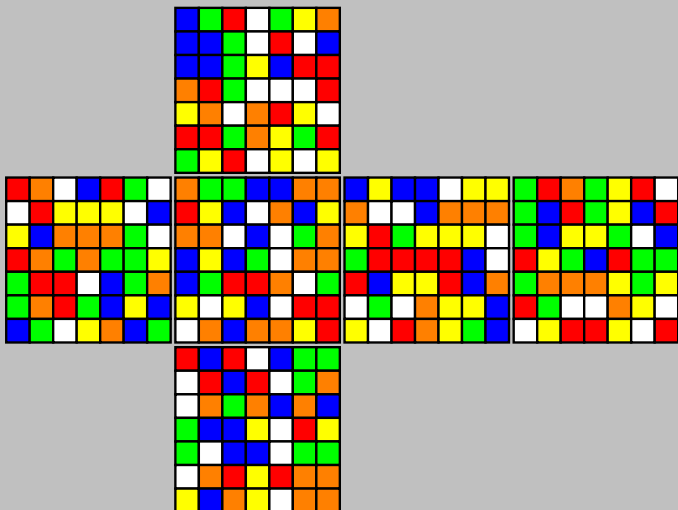
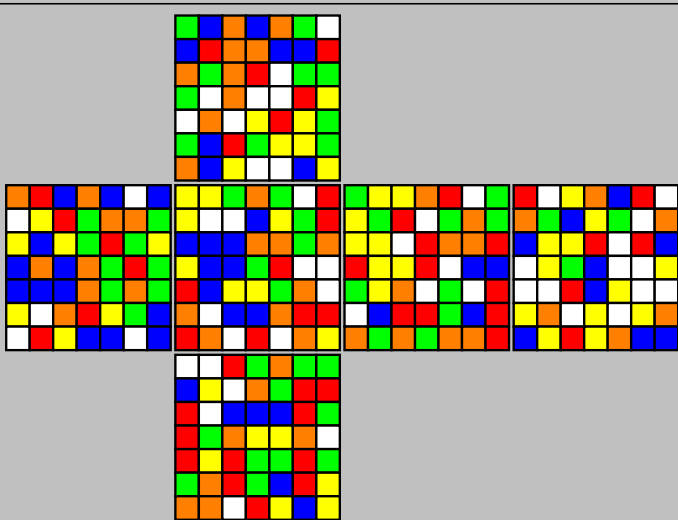
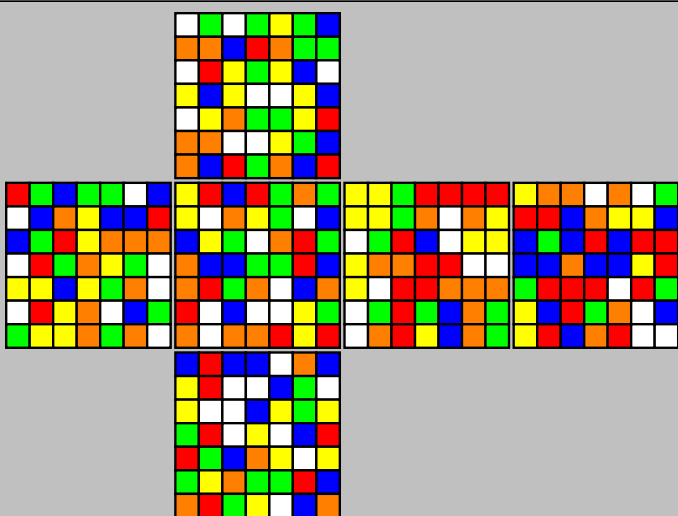
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3.	$R U^2 F' U' R' U R^2 F U' F^2 U'$	
4.	$R' U^2 F U^2 F' U^2 F U' R^2 U' R$	
5.	$R U' R' U' R' U^2 R^2 U^2 R^2 F' R$	

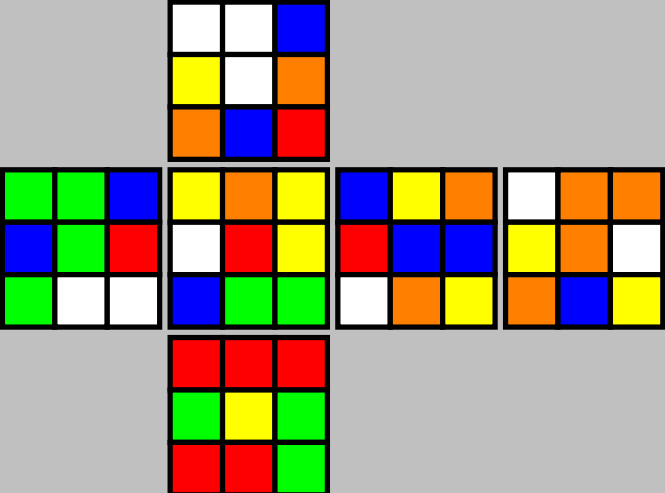
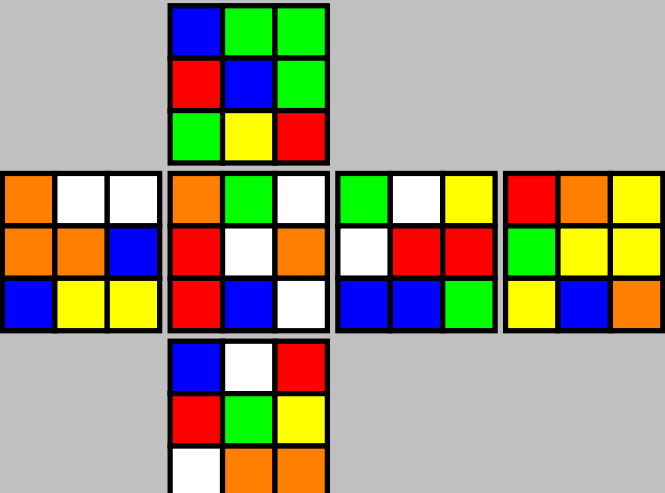
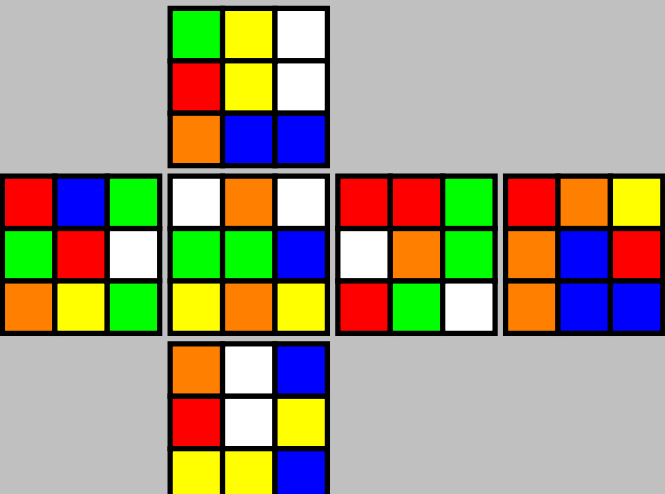
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	B'	Rw2	L2	Uw2	Rw2	R'	Uw'
	F'	Fw	R2	U2	B'	D	Rw2
	R2	Uw	B	F	L		
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	U	Uw'	D'	Rw2	D'	R2	Rw2
	D'	Rw'	L2	D2	L'	F2	Fw'
	D2	F2	Fw'	Uw'	R'	Rw'	F2
	Rw'	D'	Uw	U2	F2		
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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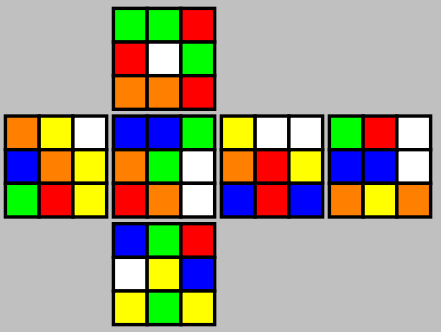
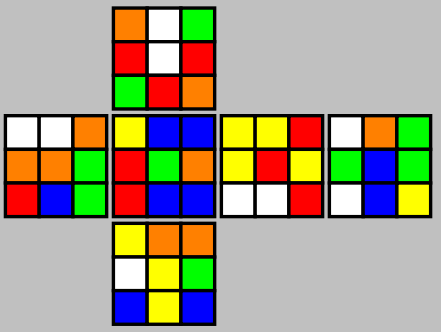
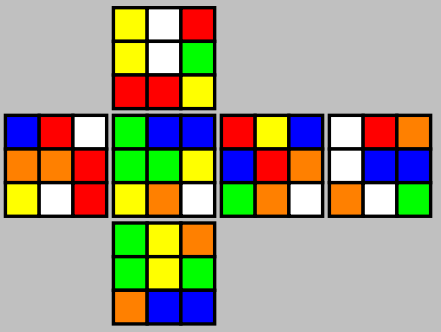
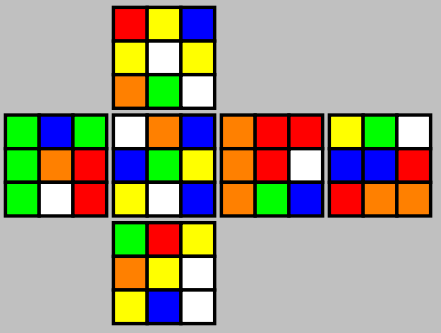
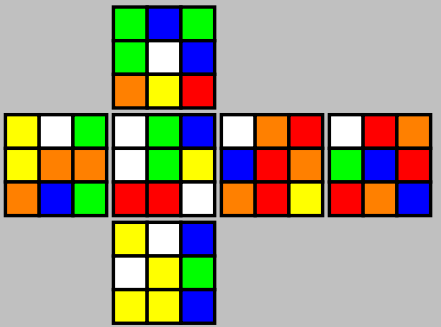


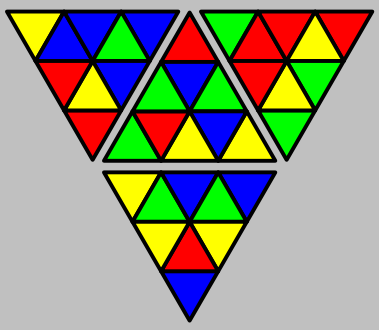
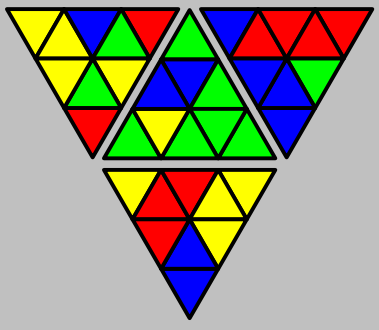
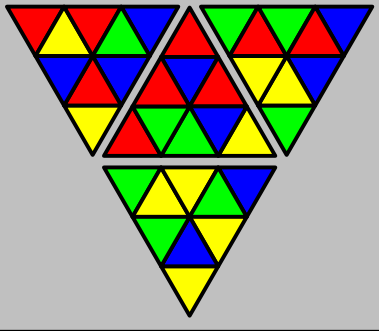
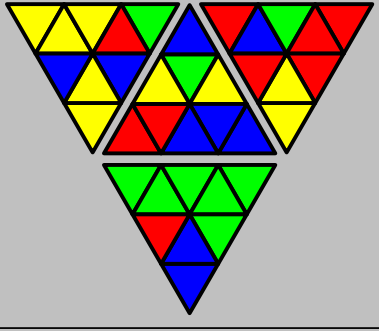
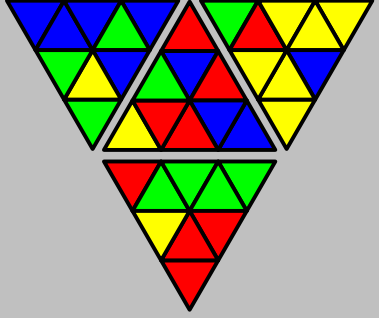
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2.	R' U' D' Rw2 U' F Dw2 F2 L2 Fw2 R2 B Dw' U2 Bw2 B' Uw' L2 Bw U2 F2 Uw2 L2 R' Dw' B2 Dw2 Uw2 U Fw' Rw Uw2 Rw F Dw2 L U2 Fw2 Lw2 F' R2 Bw U' Rw Dw' F Rw' D Bw F Dw' L2 Bw D2 Uw' L' R' D B D	
3.	Dw Fw' Lw2 L B2 Dw2 Lw R' F' Dw' Uw D U2 R Fw2 Rw B'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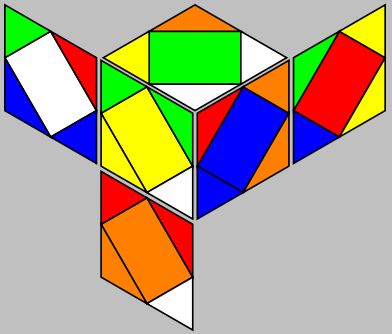
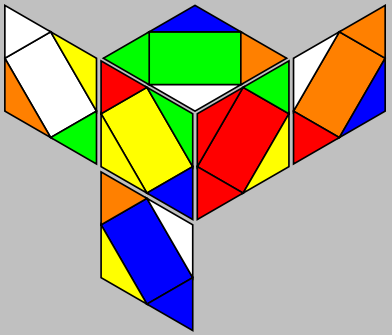
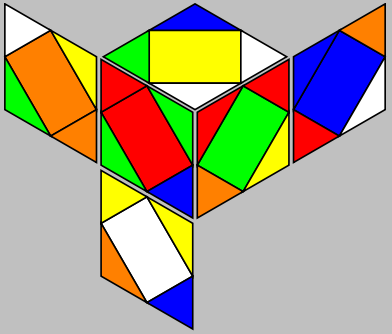
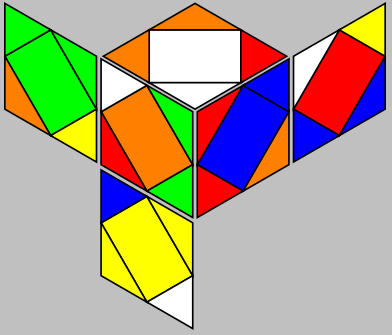
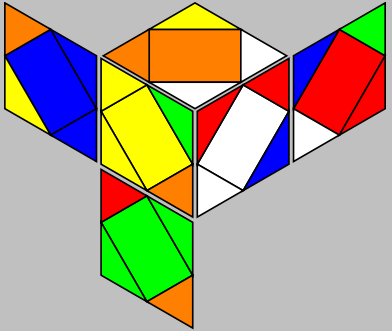
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	B	3Rw2	L	U'	B	U2
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	R2	U'	Fw	Rw'	D2	Rw
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	F2	3Uw'				
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	U2	D2	L2	F2	Uw2	Bw
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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

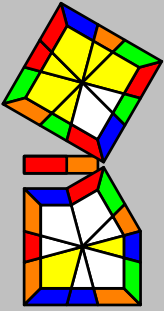
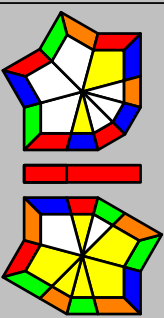
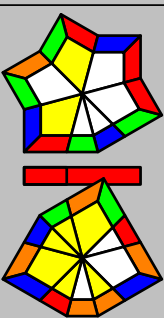
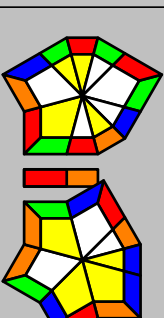
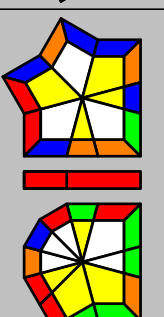
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L2	B2	Fw'	Dw2	3Rw2	3Lw'	R'																																																																																																					
D2	Bw	3Bw	3Rw2	3Fw	3Bw'	Lw																																																																																													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

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

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

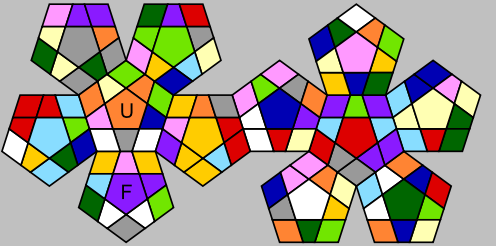
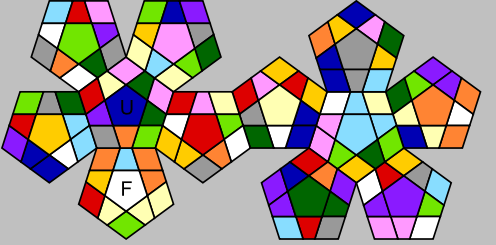
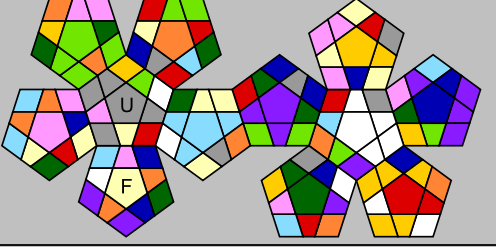
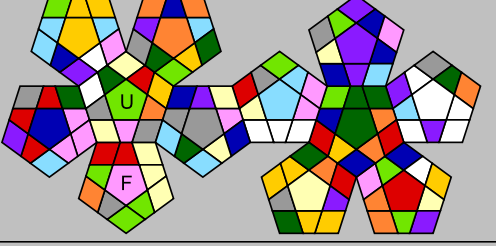
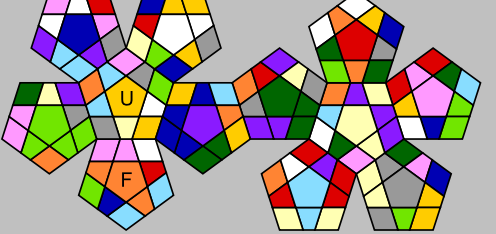
1.	L R U' B' R B' R' L R L' U' u l' r' b	
2.	R' L R' B U R L' R' L' B R' u' l	
3.	U L' B R B R B L R B' R' u l r' b	
4.	B' R B R L B L U B L' U' u	
5.	R' L R' U L U R' L' R' U' B u l	

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

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

2019-06-15

minx
Scrambles for 2019-06-15

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-- 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'	

2019-06-15

 clock
 Scrambles for 2019-06-15

1.	UR5 - DR5+ DL0+ UL5 - U1+ R3+ D4 - L1+ ALL3 - y2 U5+ R2+ D1 - L0+ ALL5+ UR DR DL	
2.	UR4 - DR4 - DL2+ UL5 - U2+ R3 - D2+ L0+ ALL3+ y2 U3+ R3 - D2 - L1 - ALL3+ DR	
3.	UR1+ DR3 - DL1+ UL0+ U6+ R3+ D1+ L5 - ALL3+ y2 U4 - R1 - D3+ L6+ ALL3+ UR	
4.	UR0+ DR0+ DL0+ UL3+ U4+ R3 - D6+ L5+ ALL3+ y2 U4 - R2+ D4 - L2+ ALL6+ UR DR UL	
5.	UR2 - DR2 - DL3 - UL2+ U5 - R5+ D0+ L3 - ALL6+ y2 U6+ R4+ D3+ L2 - ALL5 - DR DL UL	

Fewest Moves

- > You have 60 minutes to find and write a solution.
- > Write 1 move per bar. To delete a move, clearly blacken it.
- > Your solution must not be directly derived from any part of the scrambling algorithm.
- > Your solution must be at most 80 moves, including rotations.
- > Your result will be counted in OBTM.
- > Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves

Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2

Rotations

Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

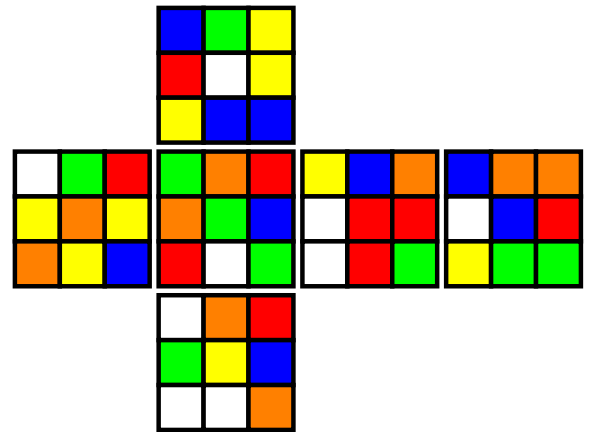
Scrambles for 2019-06-15
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F U2 R2 D2 B2 R2 F' R2 F' L2 B' F2 D' U' L B' R2 B U2 R U' 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

- > 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]

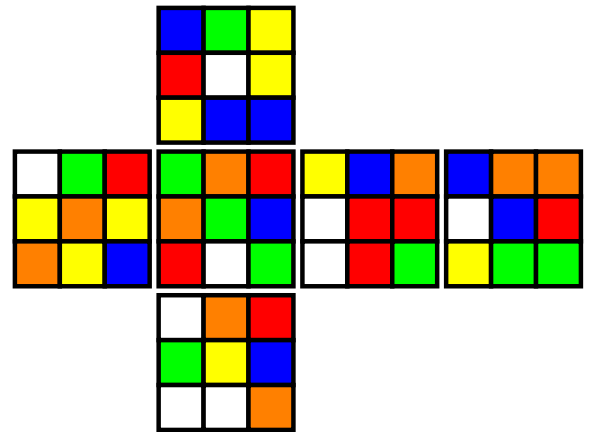
Scrambles for 2019-06-15
333fm

Competitor: _____

WCA ID: _____

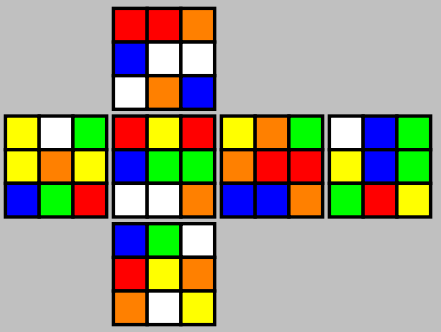
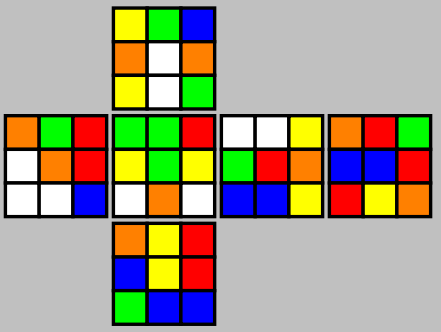
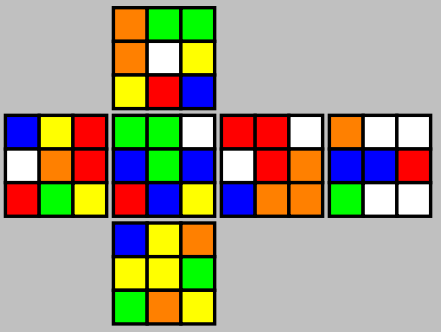
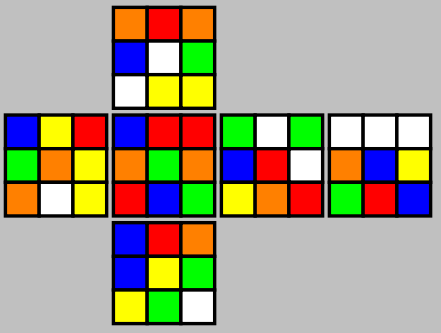
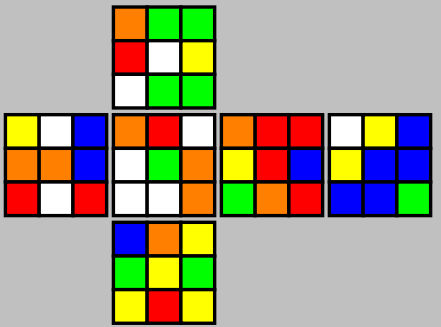
DO NOT FILL IF YOU ARE THE COMPETITOR.

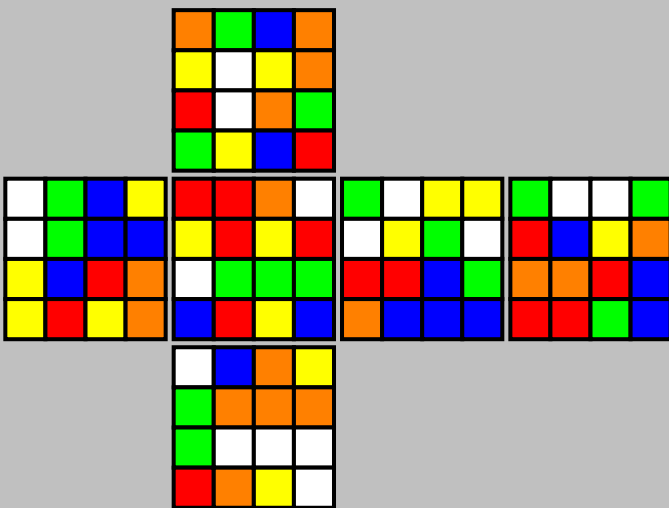
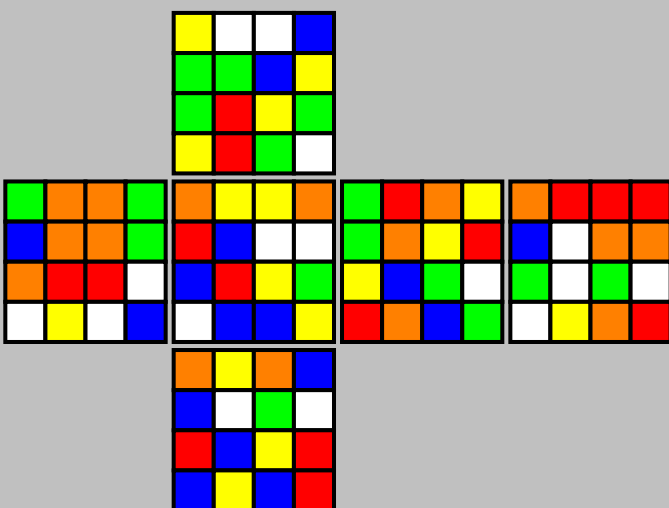
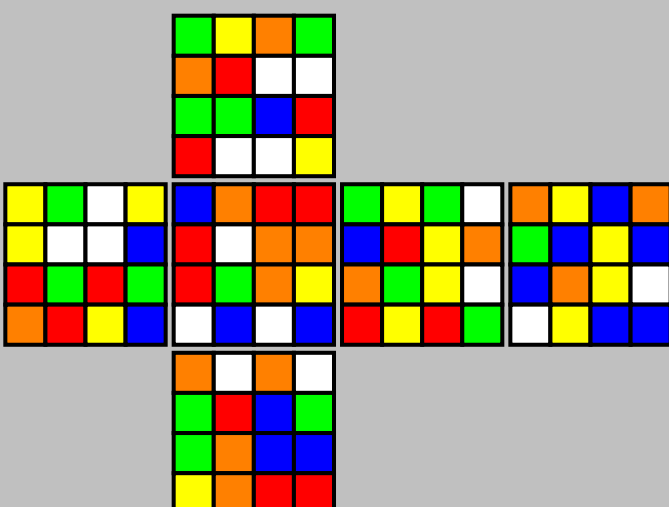
Graded by: _____ Result: ____

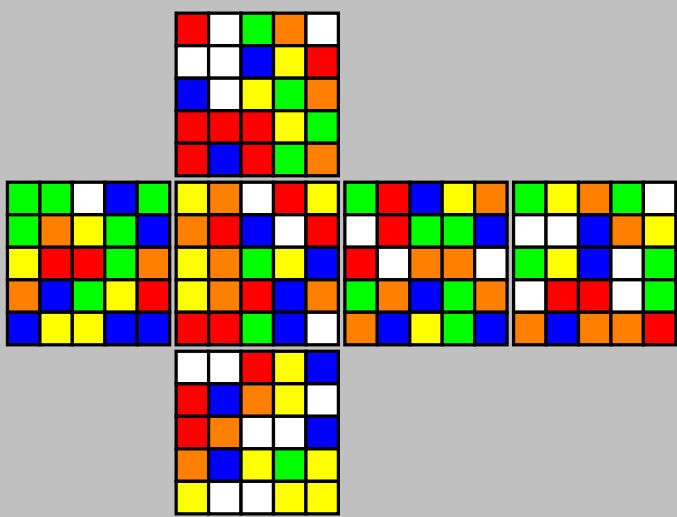
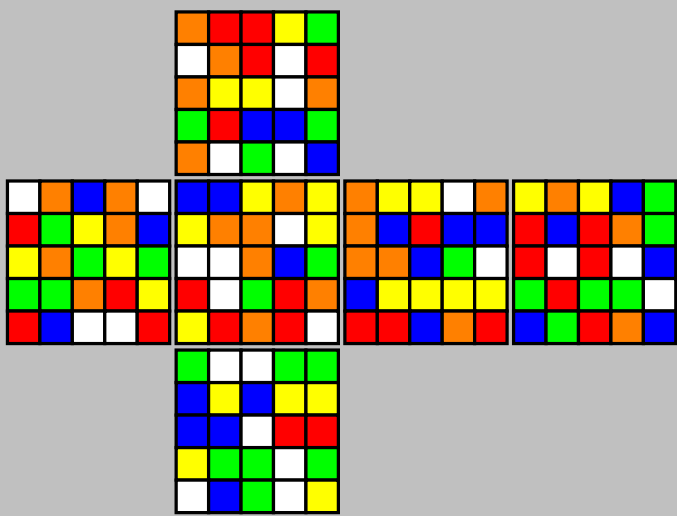
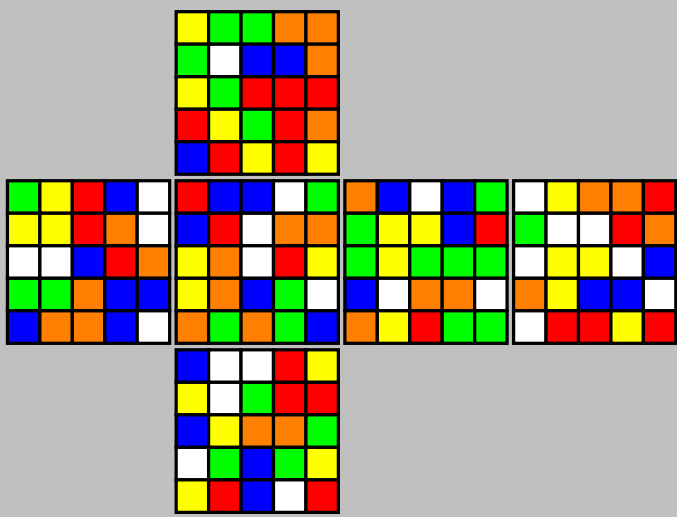


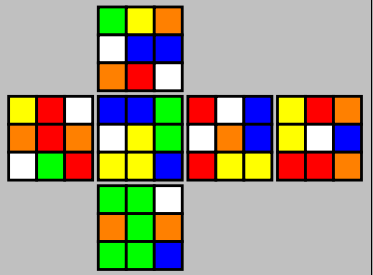
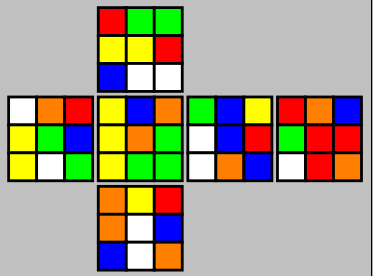
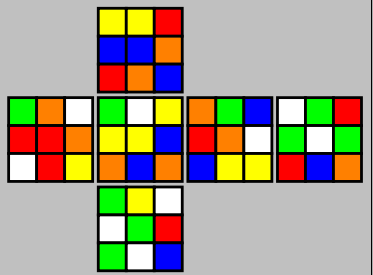
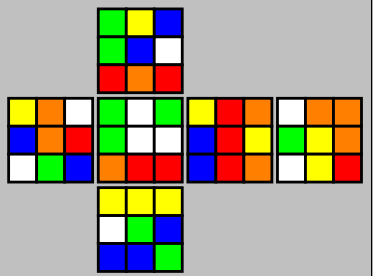
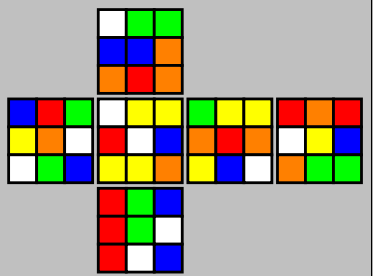
Scramble: R' U' F U2 R2 D2 B2 R2 F' R2 F' L2 B' F2 D' U' L B' R2 B U2 R U' R' U' F

A full-page view of a blank sheet of graph paper. The paper has a light gray background and a grid of thin, dark gray horizontal and vertical lines. The grid consists of 10 columns and 8 rows of squares. The lines are evenly spaced and extend across the entire page, leaving small margins at the top, bottom, left, and right edges.

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

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

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

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

6.

F2L2U2B'L2B'R2

F2U2FL2D'L'D

B D'B'U'L2FD

FwUw2