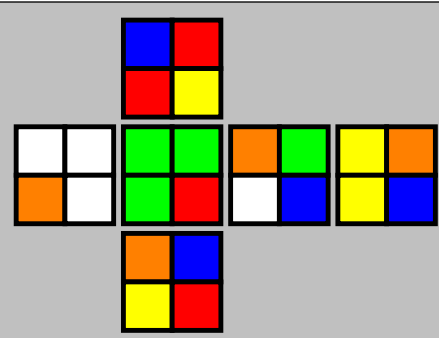
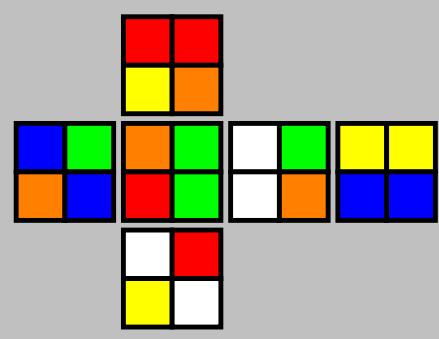
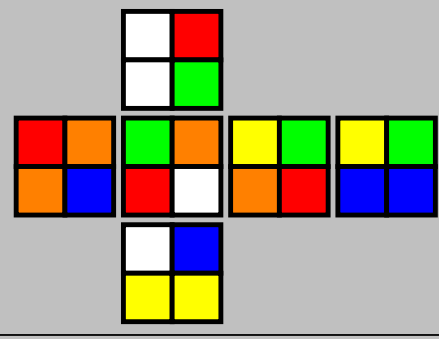
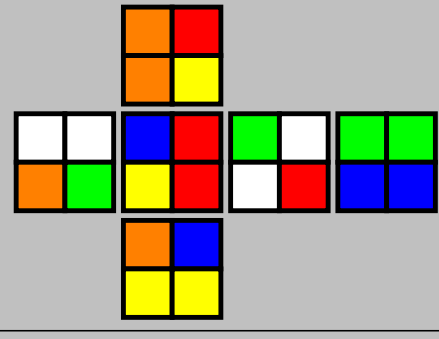
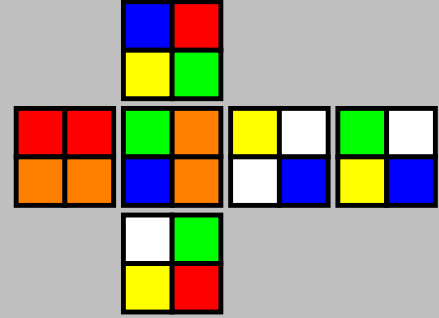
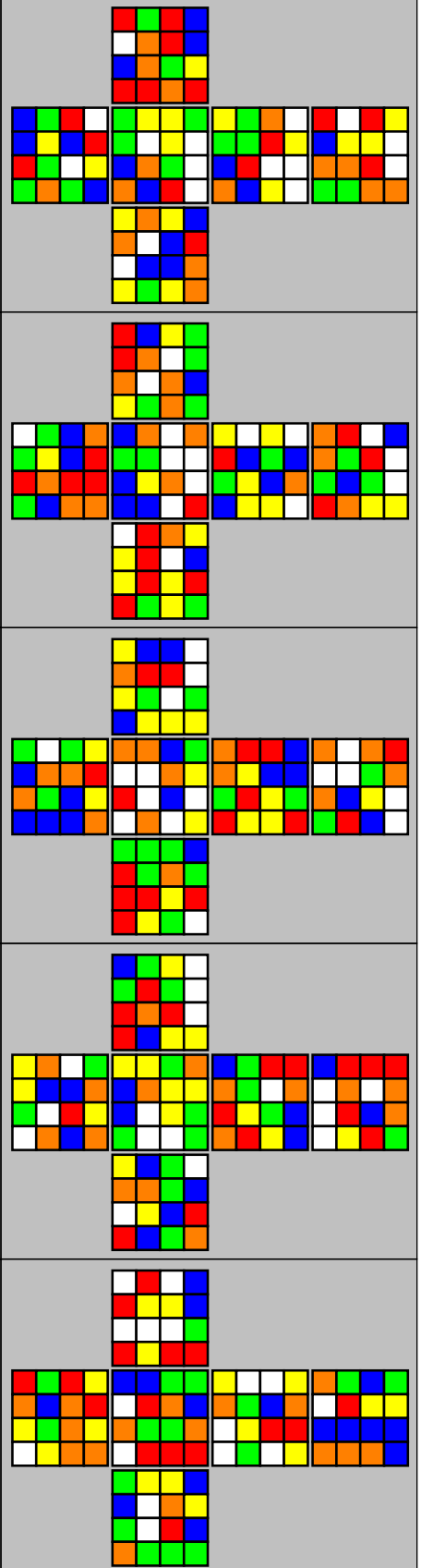


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2.	U2 L2 B' D2 B U' F' D F' L D B' R2 F' B' U2 F L2 B'	
3.	L2 B2 L' F' D2 F U2 F D' B R2 B2 R2 L' F2 L F2 U2 F2 L2	
4.	F2 D2 B2 D U2 L2 D2 B2 R' F2 L' F' L2 U B2 L2 R' B2 D2	
5.	R' D2 F2 U2 L D2 R D2 U2 F2 D L' F' L2 R' B F' L2 U	

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

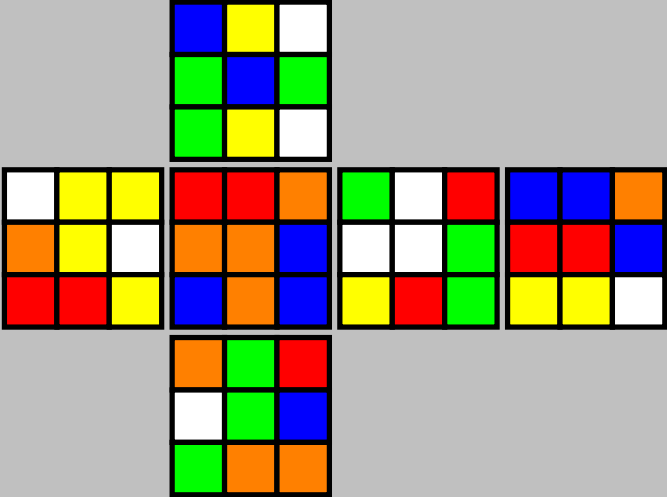
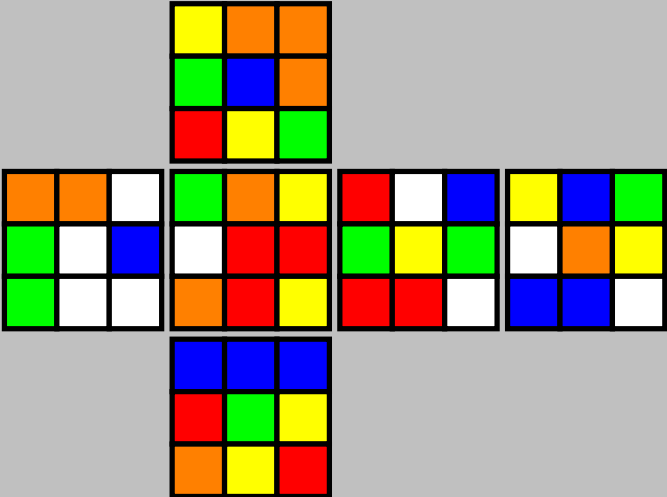
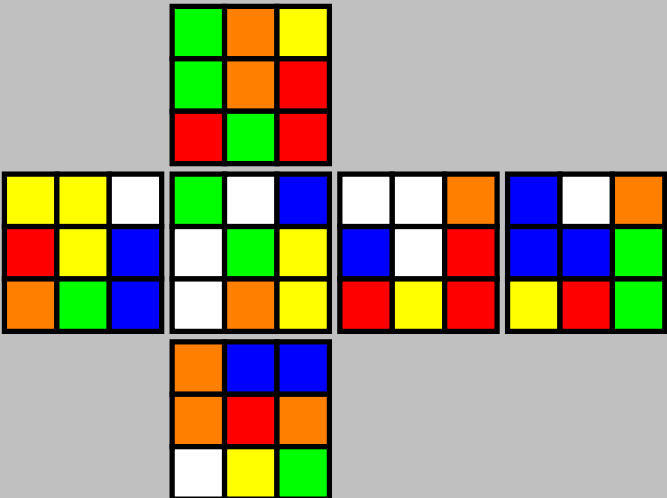
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	U2	D'	L	D	L2	B	L2
	D2	Uw'	B'	Fw'	L2	Rw'	R2
	B2	Rw	Uw2	U	D2		
2.	L'	R	Rw	U'	F2	U2	R'
	L	Uw2	R	B2	Fw'	Uw2	U
	R2	D	F	L'	U2	Uw2	D'
	B'	L2	Fw2	F2	B	U'	F2
	U'	Rw'	F'	D'	B'	U2	F'
	Fw	Uw'	U2	Fw2	L		
3.	Rw'	D'	U2	Uw	Fw'	F	L2
	F	Uw2	L2	B'	F'	R'	Rw
	F	R	Fw	L'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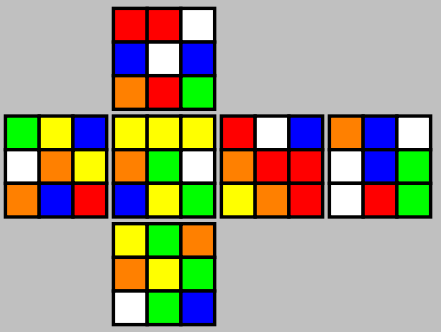
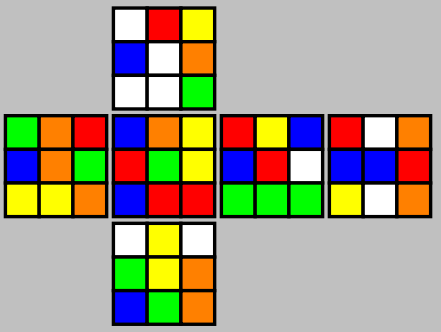
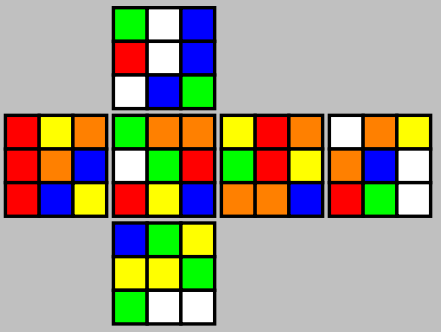
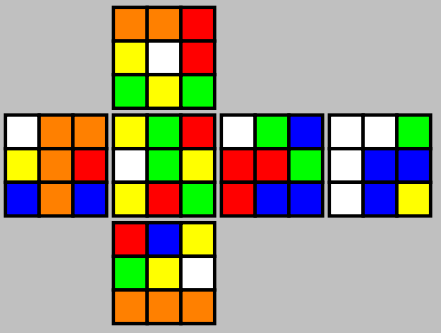
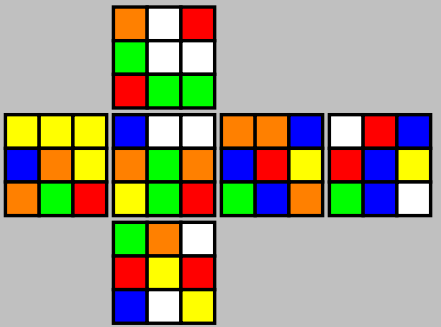


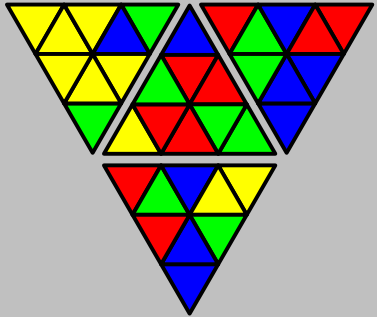
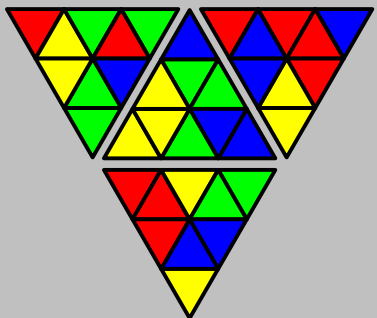
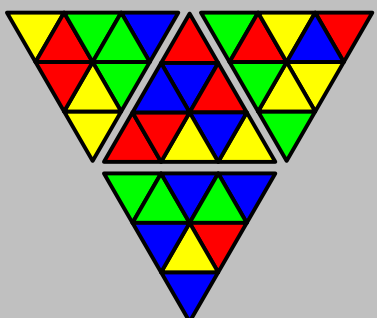
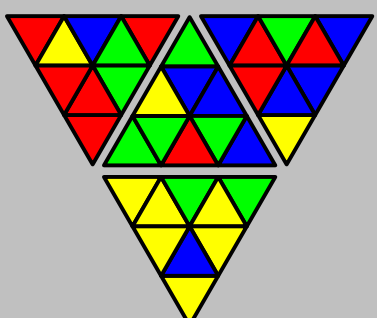
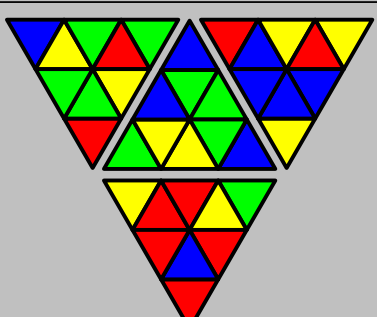
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2.	F Uw' Dw L Bw' L' Lw R2 Bw Lw' B2 F' Dw R2 Dw2 Bw F' Dw2 Uw' D B L2 B2 U' B' Dw' R' Rw B Uw D2 Lw D' F Bw L2 B2 D' F Fw' Uw' Dw' Lw' R' B2 Bw2 Lw D Bw2 Dw R2 F2 Dw' U B Fw L Rw' F2 Fw	
3.	Lw' F2 L2 Dw' Bw R U' D R' Bw2 U' D2 Bw2 Lw Rw Uw' D U' Fw2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

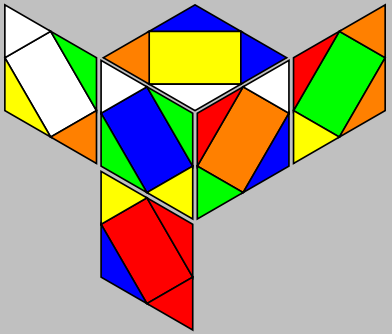
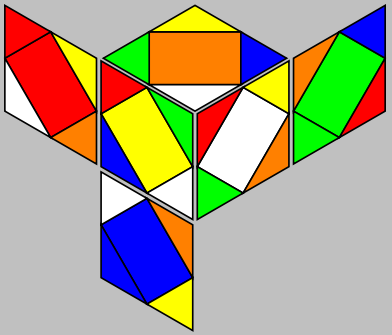
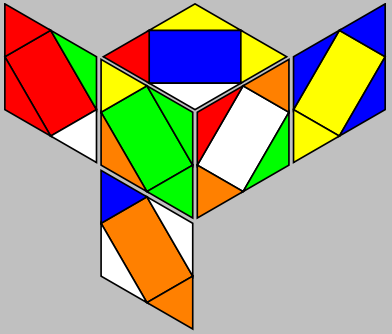
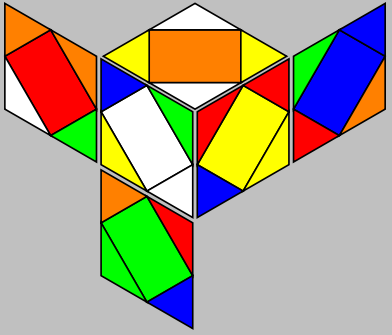
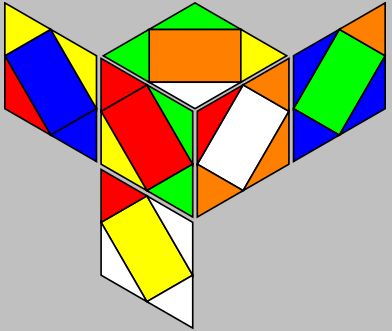
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	3Fw	Uw	Dw'	3Uw2	Lw	L
	3Rw	3Fw2	Rw	Fw'	3Rw'	Rw
	F	U	B'	3Rw'	R'	3Uw2
	Dw2	Lw2	U	L2	Rw2	3Rw
	B2	Rw	Dw2	Bw'	Lw2	3Fw
	Dw	B	Bw2	Uw2	Fw	Dw
	R	D	3Rw2	U2	Bw	F2
	R'	Fw'	Lw'	Uw2	Bw	3Fw2
	L'	3Uw'	Lw2	B	R	Fw2
	Lw	L	Rw2	R	U	B'
	U'	3Fw'				
2.	U2	F'	Uw	Lw2	L'	B'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

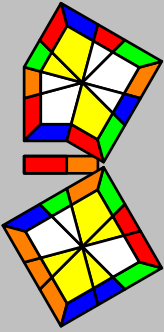
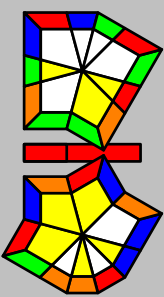
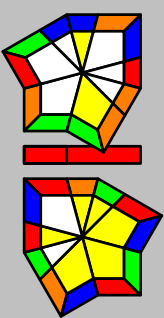
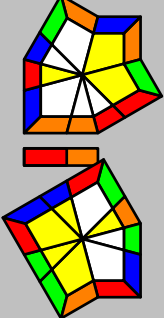
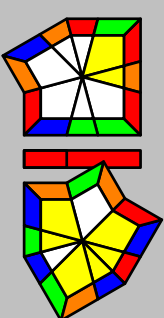
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Bw	Uw2	3Fw'	L2	3Uw	Uw'	Rw																																																																																																					
D'	Uw	3Fw'	D'	3Rw'	Rw'	Lw																																																																																															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

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

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

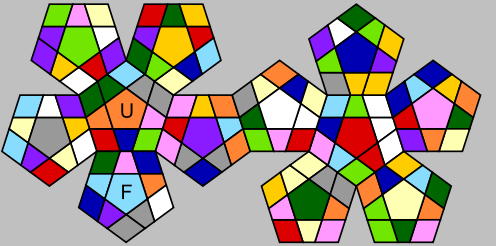
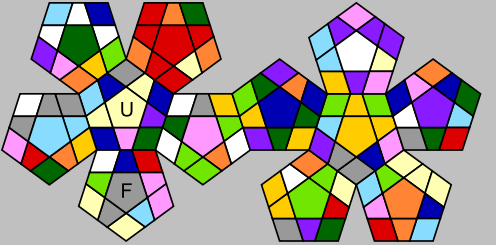
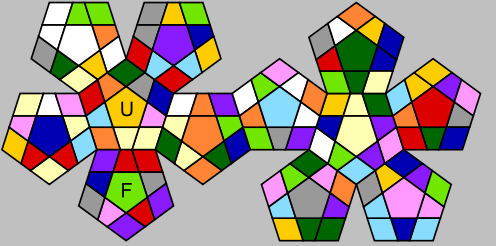
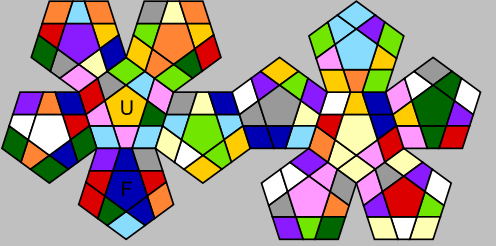
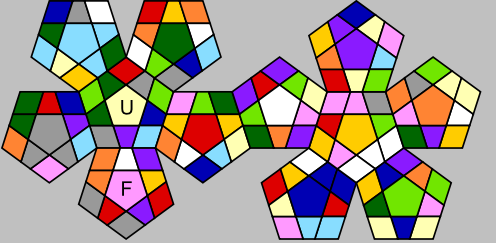
1.	$B' U R L' U' R' U R L' R' U u' l$	
2.	$B' R' U' L' B R' L U R B' L' u b$	
3.	$B R' B' U' B' R' B' U' R L B' u r' b'$	
4.	$U R' B' R U' L R U' R' U' L' u' r' b$	
5.	$R B' L' U' R' B R U' R' U' B' u l r' b'$	

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

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

2019-05-17

minx
Scrambles for 2019-05-17

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

2019-05-17

 clock
 Scrambles for 2019-05-17

1.	UR1+ DR4+ DL1+ UL1- U1- R3- D2+ L2- ALL2- y2 U4+ R3+ D6+ L3- ALL4+ DL UL	
2.	UR4+ DR2+ DL5+ UL6+ U3- R3+ D3+ L1- ALL1+ y2 U4- R2+ D5- L3- ALL5- UR DL UL	
3.	UR1- DR1+ DL1- UL4- U4- R1- D2+ L4- ALL0+ y2 U5+ R5- D5- L4- ALL3- UL	
4.	UR4- DR1- DL1- UL2+ U2- R3- D1- L2+ ALL5- y2 U3- R3- D2+ L1+ ALL3- DL UL	
5.	UR1- DR4- DL1+ UL3- U0+ R2+ D1+ L4+ ALL2+ y2 U1- R5- D1+ L4+ 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]

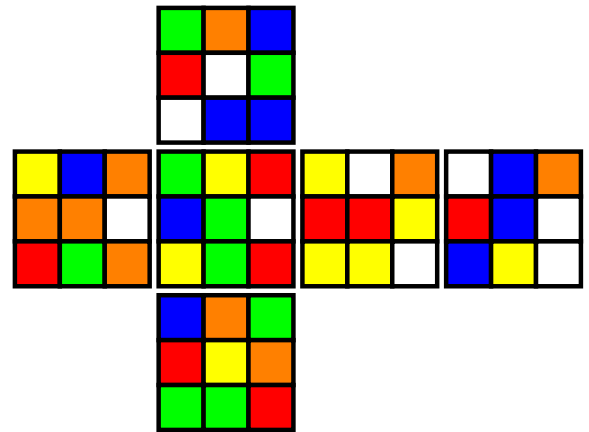
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



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

[illegible]

Fewest Moves

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

Face Moves

Clockwise F R U B L D

Counter-clockwise F' R' U' B' L' D'

Double F2 R2 U2 B2 L2 D2

Rotations

Clockwise [f] [r] [u] [b] [l] [d]

Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d']

Double [f2] [r2] [u2] [b2] [l2] [d2]

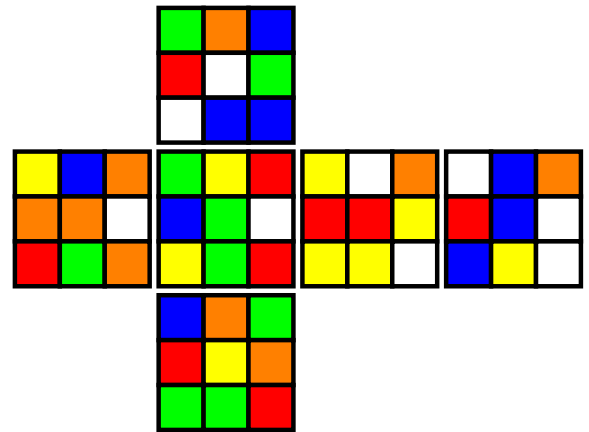
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

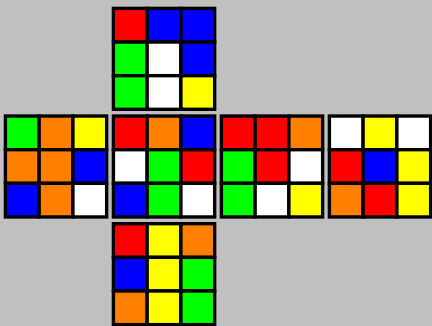
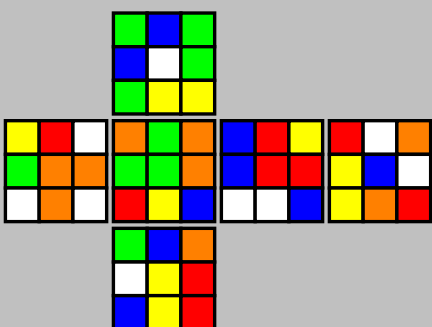
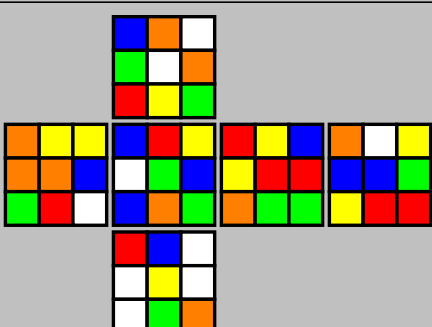
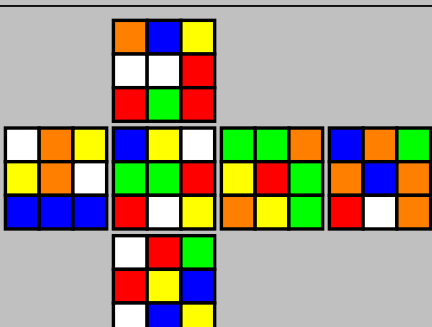
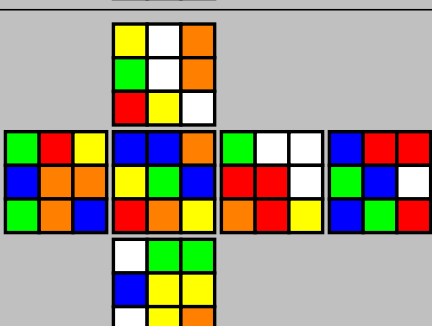
DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____

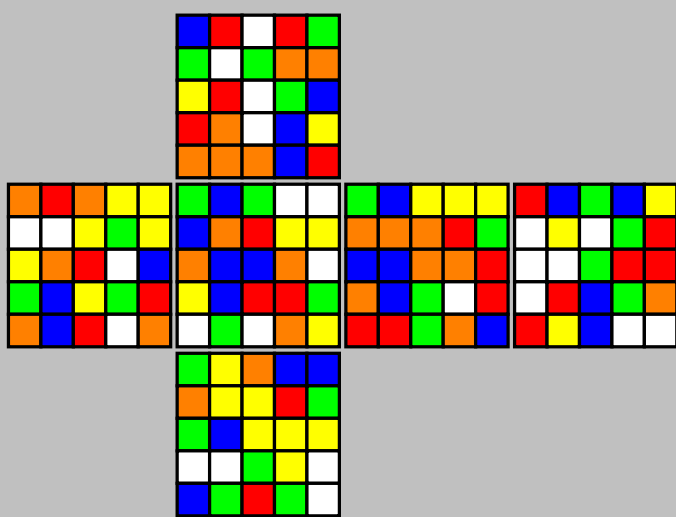
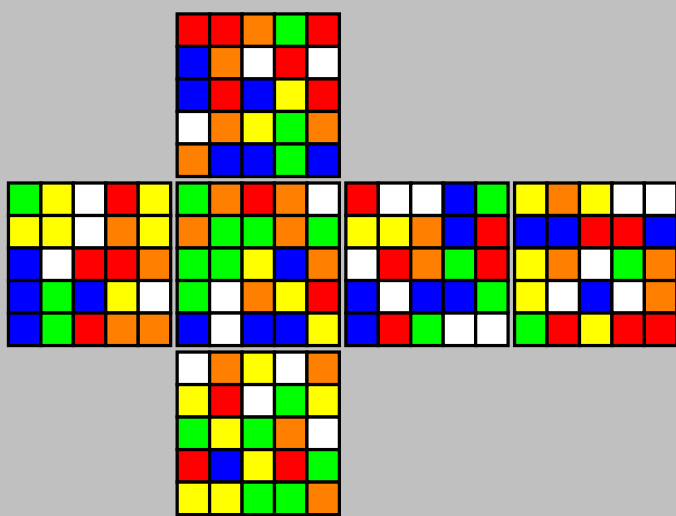
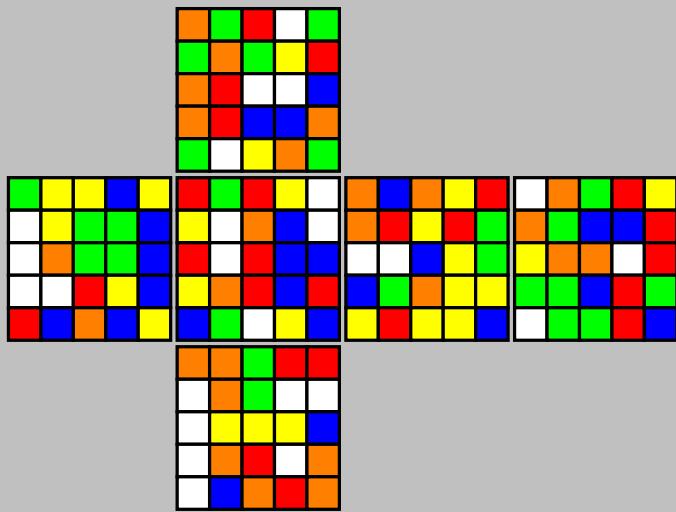


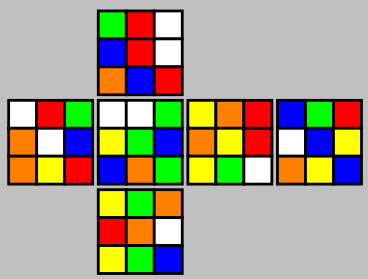
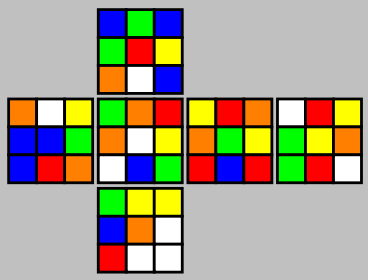
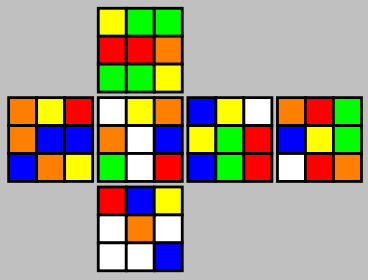
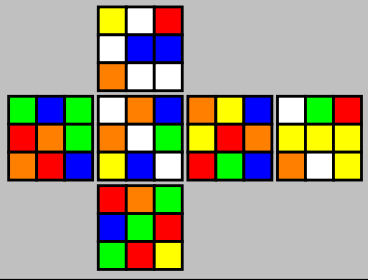
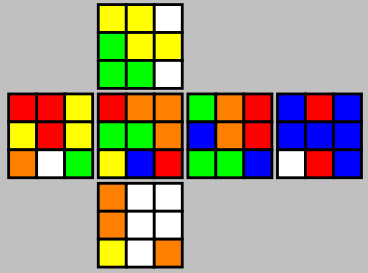
Scramble: R' U' F U2 B2 L' D2 R U2 R' U2 F2 U' R F D U L2 F U' L B U R' U' F

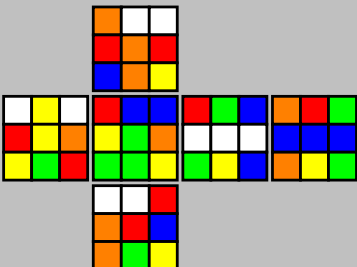
A blank sheet of white paper featuring a light gray grid pattern. The grid consists of evenly spaced horizontal and vertical lines, creating a series of small squares across the entire page. There are no margins, text, or other markings present.

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

1.	F2	U'	L2	U2	R2
	U	D2	L'	U	R
	B'	D	L2	B	R2
	D	B'	R	Rw2	Uw2
	U2	B2	U'	Rw2	U'
	Fw2	F	Uw2	U	B'
	U'	Rw	D	Rw'	D
	B'	Rw'	L2	Fw'	L2
	Uw	Rw2	B'	U2	x2
	y'				
2.	U	R2	U	L2	B2
	U	R2	U	B2	D2
	R2	B	U2	B'	R
	D'	B	U'	F2	U2
	Uw2	F'	R'	Uw2	F'
	D2	B'	Uw2	R2	F2
	Rw2	Fw2	U2	Uw'	R'
	F'	Rw2	Uw	Rw2	F2
	Rw	Fw	B2	R	Uw
	z	y			
3.	U2	L	B2	R'	F2
	R'	D2	R2	U2	F
	D2	F	D2	L	D'
	R2	F	R'	Fw2	Uw2
	F2	D	Rw2	B2	F
	D2	Fw2	D'	Rw2	B
	F2	R'	B2	Rw'	Fw'
	U'	Rw	F	Uw	U
	D	F'	z	y2	

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

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

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