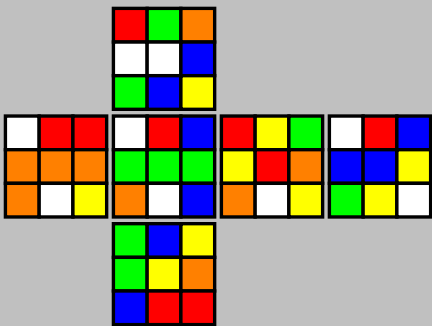
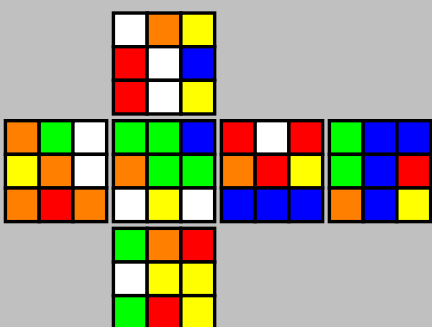
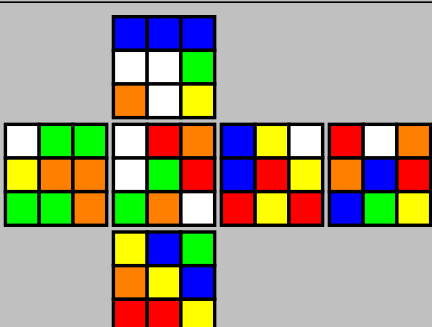
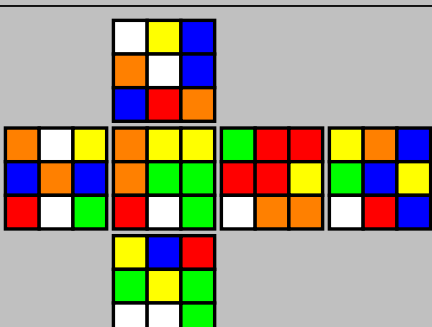
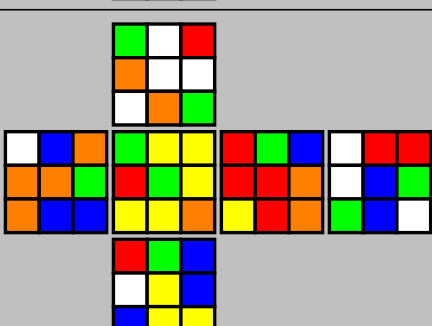
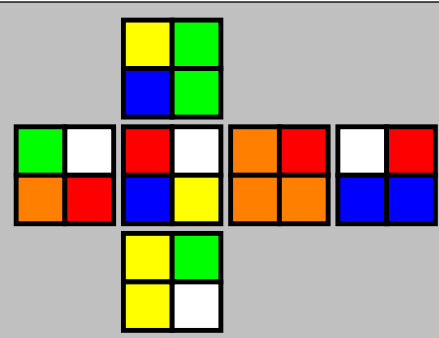
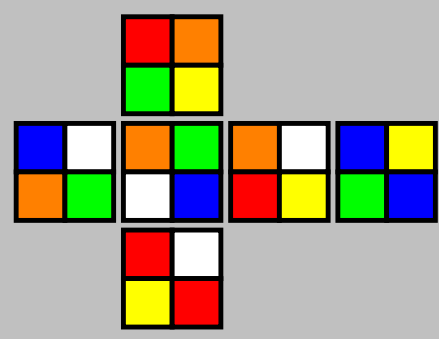
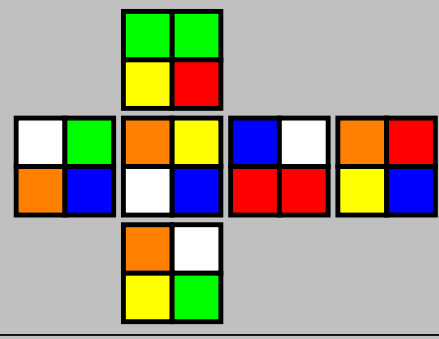
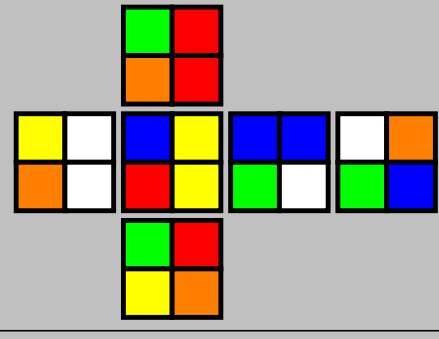
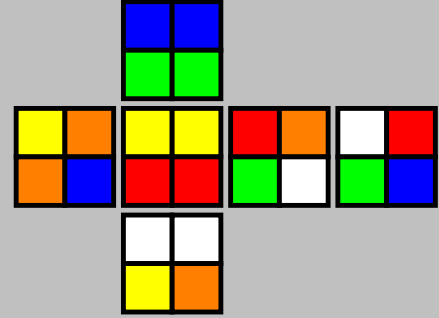
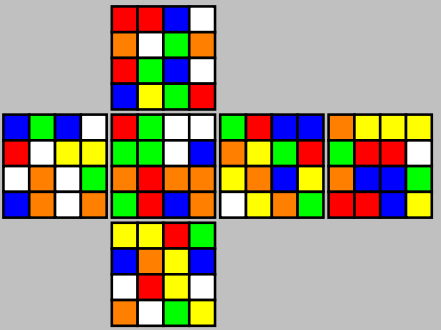
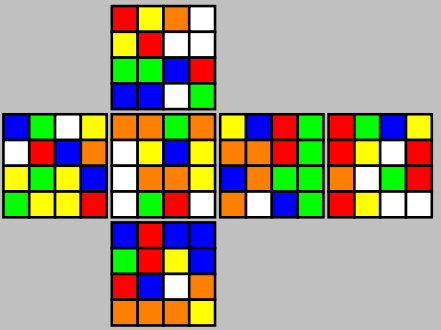
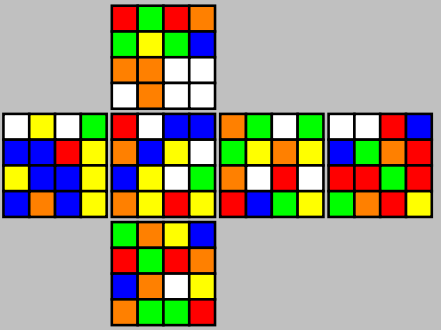
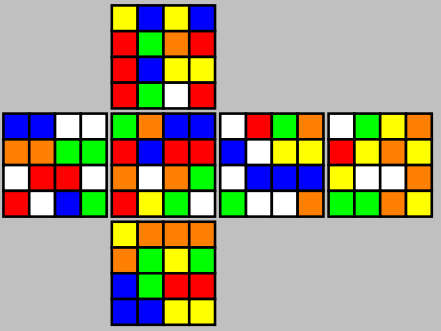
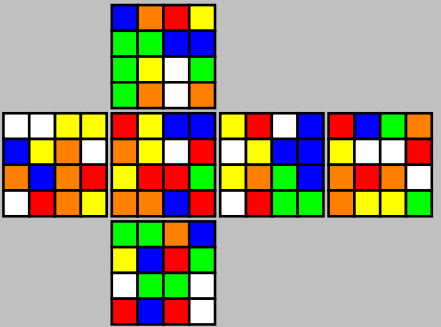
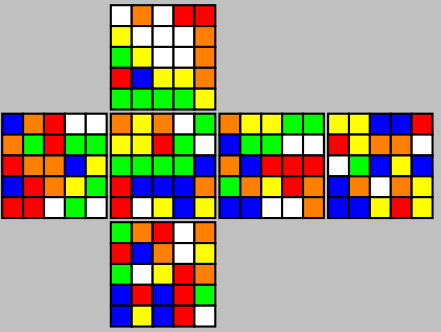
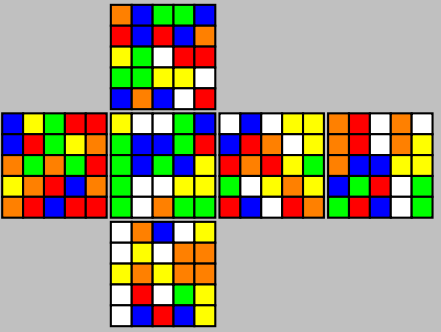
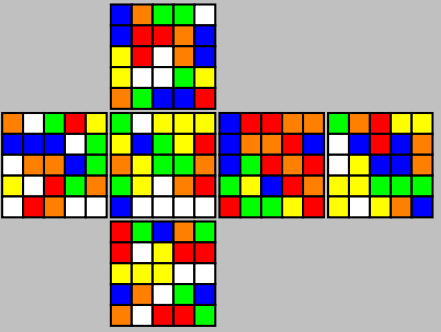
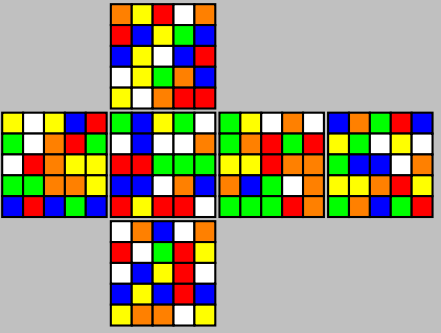
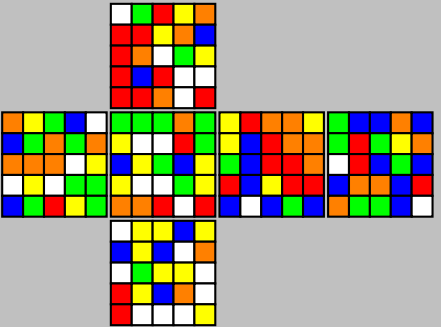


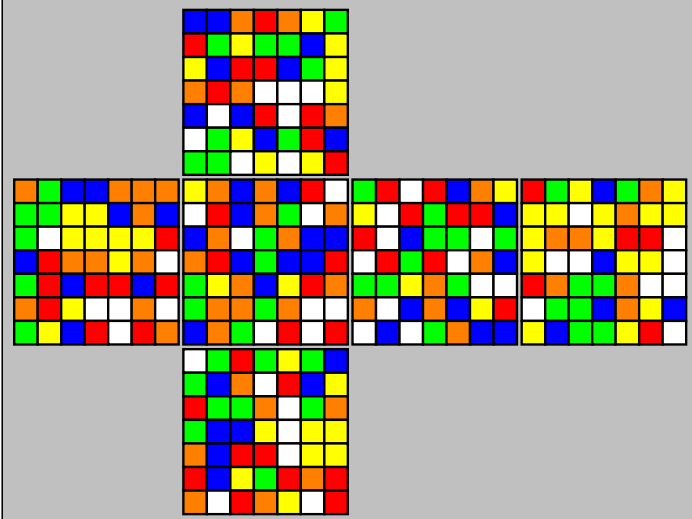
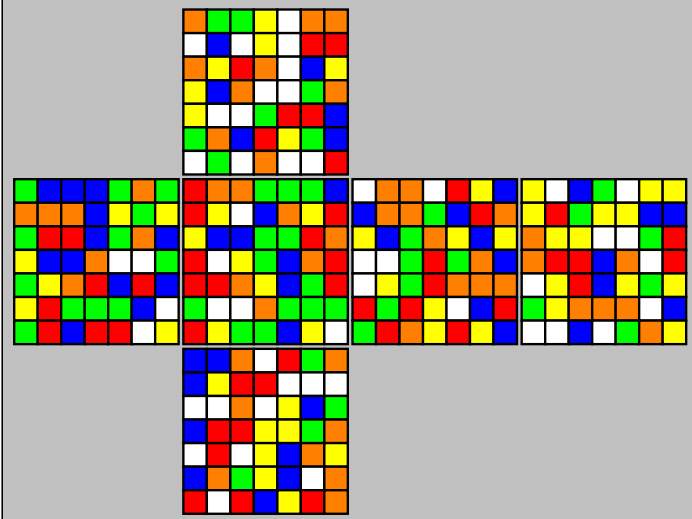
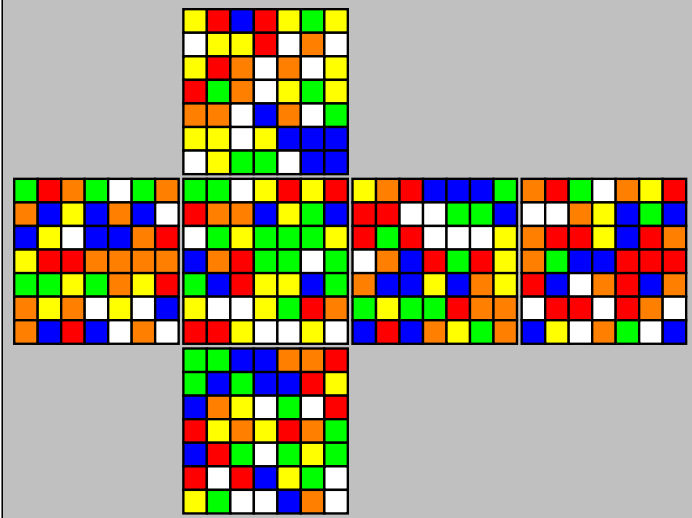
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2.	L2 B2 L2 U2 F' U2 R2 F U' F' R' F' L B2 L' R2 B' F R'	
3.	R2 D2 L D2 L F2 R' U2 F2 R D R B' R2 D' L' U B R	
4.	B2 R2 F U2 B D2 R2 F R2 D' L' R' B' F2 D2 U' B U2 F U	
5.	L U2 B2 D B2 U' R2 D R D B R' F2 R' U2 F2 B2 R' U2	

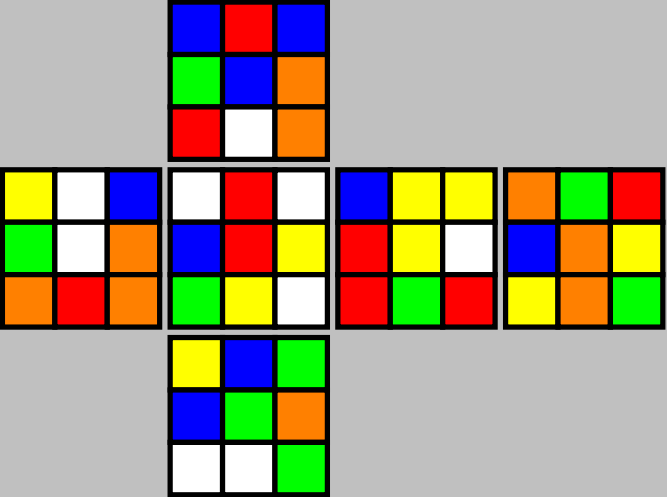
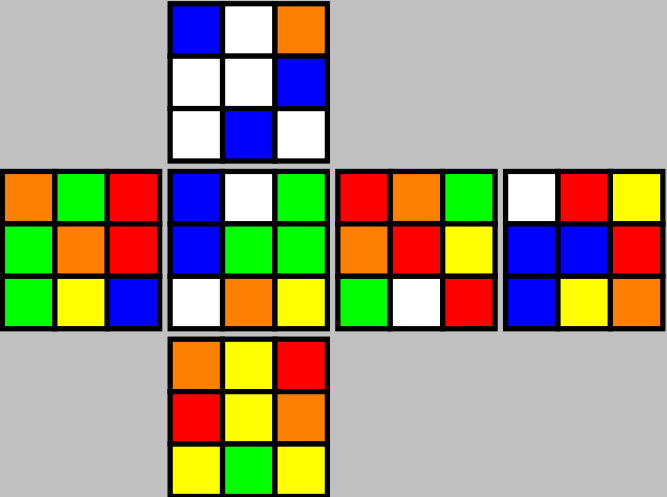
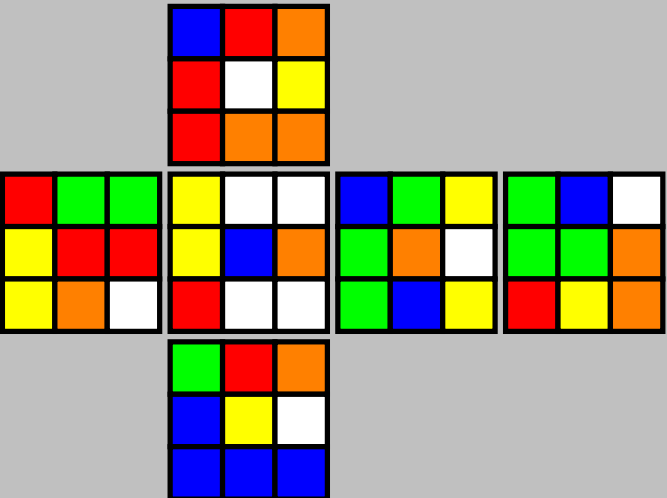
1.	$R F U' F U' R U^2 F' R U^2 R'$	
2.	$F R U F' U' R U R' U^2 R U$	
3.	$R U' F R U' R' U^2 F U' F R$	
4.	$U' R U' R' U R' F' R U^2 R F'$	
5.	$U^2 R' U' R F' U R U^2 R' F' U'$	

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

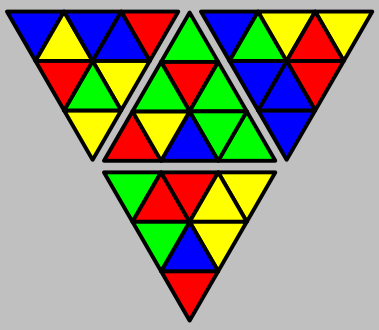
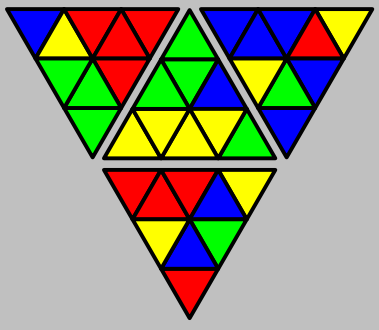
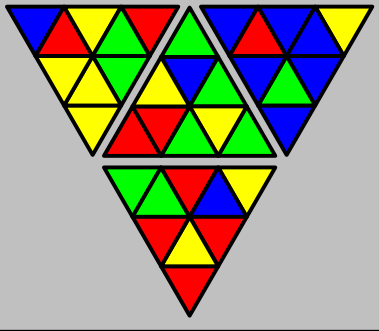
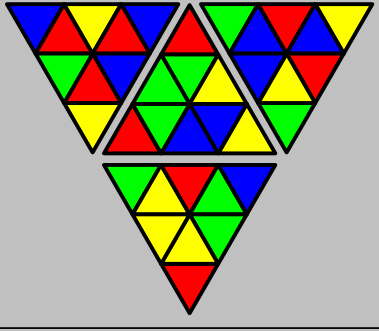
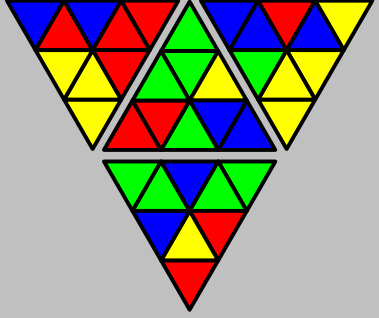
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2.	Lw' Uw2 U2 L2 Uw2 F Fw2 R' Uw2 Dw2 Rw' U' F2 Uw Rw2 D' R2 L2 D Dw Lw' R' Uw Dw2 D' F' Rw2 Uw' D Dw2 Lw' D2 R2 Uw2 D' F R F2 Fw2 Uw L Uw2 Dw' D' U L2 U B' Bw Lw Rw Uw2 U B R' Lw' Fw2 D Dw' L'	
3.	B' Rw2 R B2 D2 Fw Bw U' Dw Fw U' B L2 U' Lw2 R U R2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

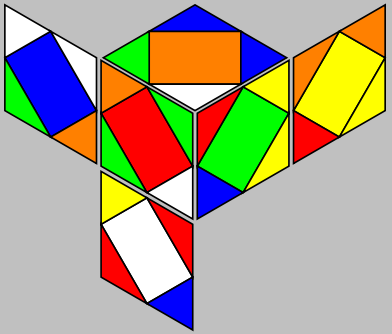
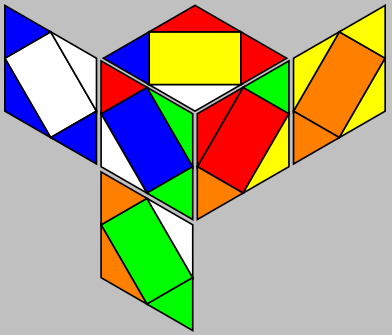
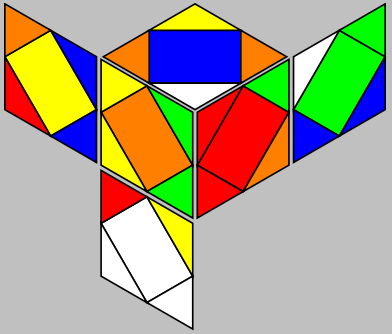
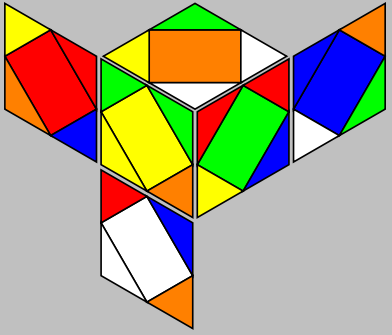
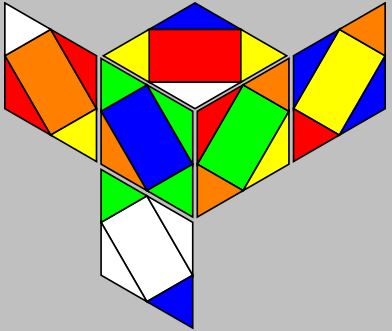
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	R'	Fw2	Dw	Rw'	Lw2	F'
	Rw'	R2	L	3Rw2	Uw2	R2
	Fw2	D2	U	3Uw	F2	Rw'
	D	B	Rw'	Lw2	Uw	Dw
	D2	Fw	3Fw	Uw'	L2	Rw'
	Dw2	Rw	Uw	3Uw2	Bw'	3Fw2
	Lw	3Fw'	D'	Lw	Uw2	3Uw
	L'	F2	Fw'	U'	Dw2	Lw
	Rw'	Fw'	R'	3Fw2	F'	Uw2
	Bw2	Fw2	B2	3Fw2	R	Rw'
	3Uw2	Dw2	D	Rw2	3Fw2	B
	L'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

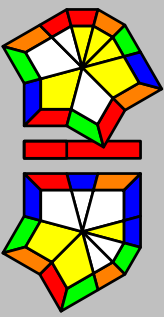
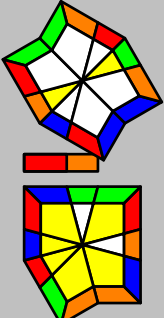
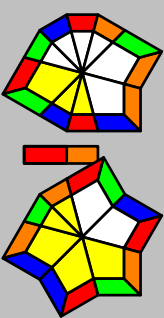
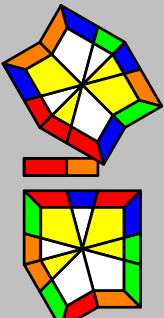
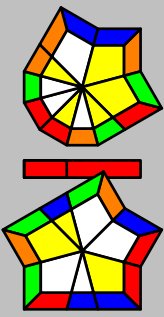
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2.	3Rw F' 3Fw' U2 Rw' Uw' L U' Fw2 3Bw' U2 3Rw' F2 B 3Bw2 Uw2 3Rw' R Lw' Dw2 3Lw2 3Bw U2 Bw' Lw2 3Dw' B 3Rw R2 Fw2 D' 3Rw2 3Fw' Dw' Bw' R 3Bw' U' 3Rw' Bw' R Fw2 R2 3Lw2 Dw' 3Dw2 L' 3Uw Bw U L2 F2 D' 3Dw2 L2 Uw' 3Rw F Rw' B2 3Bw' Rw2 Uw2 Dw R' U' 3Dw2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

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

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

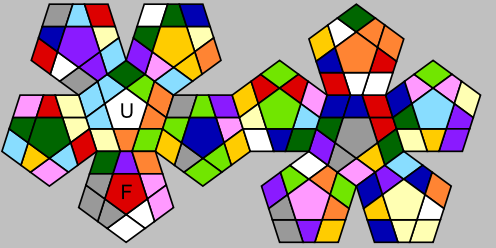
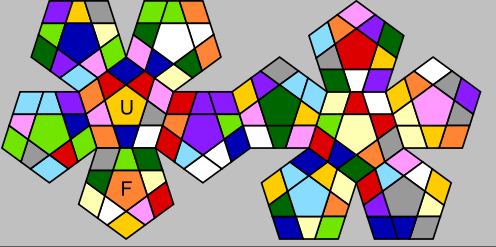
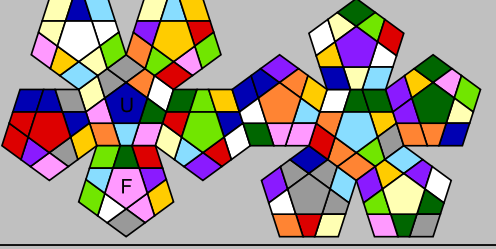
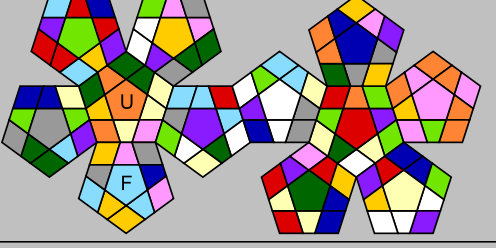
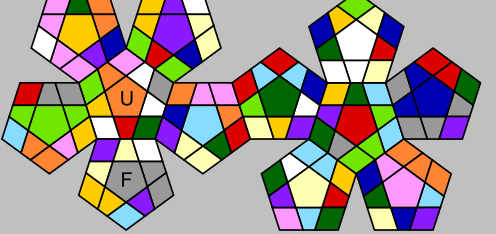
1.	L U R L' B R' B R U R' L' u l' b'	
2.	B' U' R L' B' R' B' R' B' R' U r' b'	
3.	R' L B' U B' U' R' L U B' L' u' r' b	
4.	B U' L B U L U L R' U' B u' l r' b	
5.	R' B L R' B' L' R' U' R' L U b	

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

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

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.	UR4+ DR5+ DL4+ UL4+ U1+ R4+ D2+ L0+ ALL6+ y2 U4- R5+ D6+ L4+ ALL0+	
2.	UR6+ DR1- DL1- UL4+ U2- R2+ D4+ L6+ ALL3+ y2 U1- R2- D3- L1+ ALL3+	
3.	UR5+ DR3+ DL3- UL5+ U1+ R3- D5- L6+ ALL5+ y2 U4+ R4+ D1+ L6+ ALL1- UR	
4.	UR3+ DR2- DL4+ UL2- U1+ R4+ D4- L3- ALL4+ y2 U1+ R1- D4+ L1+ ALL4- UR DL	
5.	UR6+ DR2+ DL5- UL4+ U1+ R2+ D5+ L3- ALL2+ y2 U2+ R2+ D3- L2- ALL3- 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]

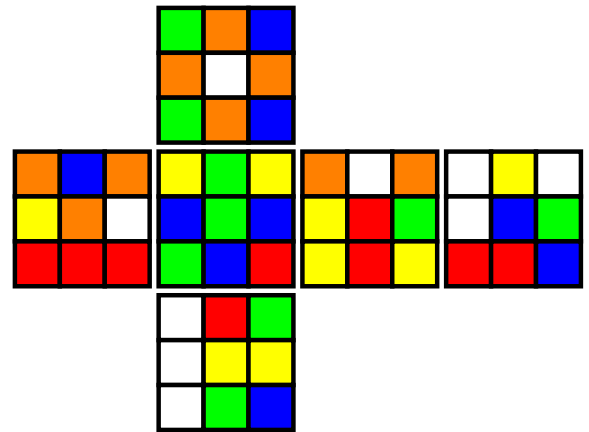
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



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

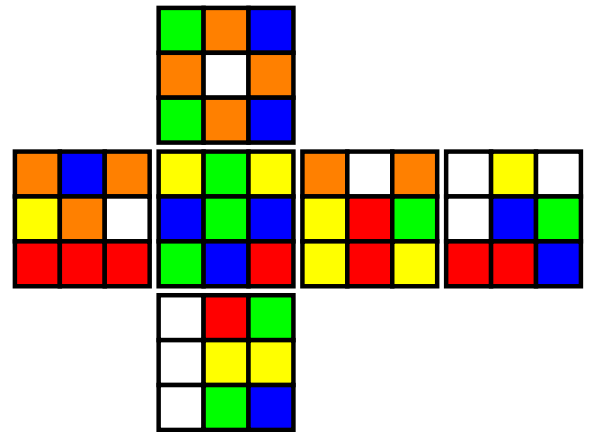
Scrambles for 2019-05-17
333fm

Competitor: _____

WCA ID: _____

DO NOT FILL IF YOU ARE THE COMPETITOR.

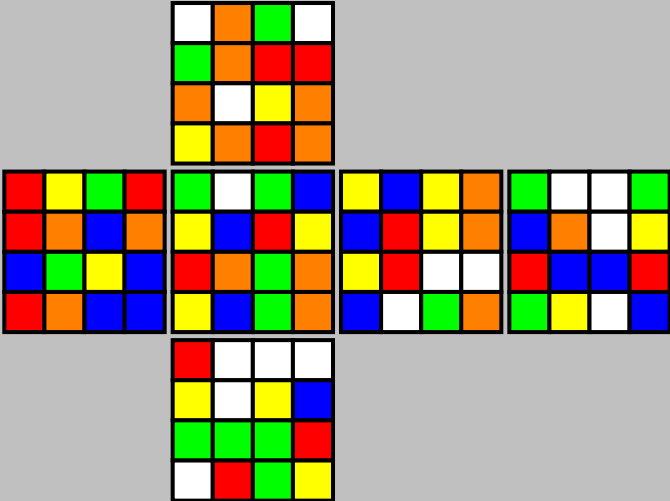
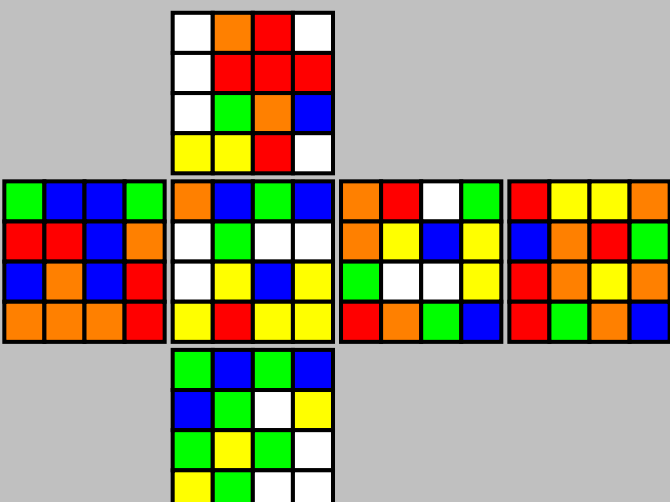
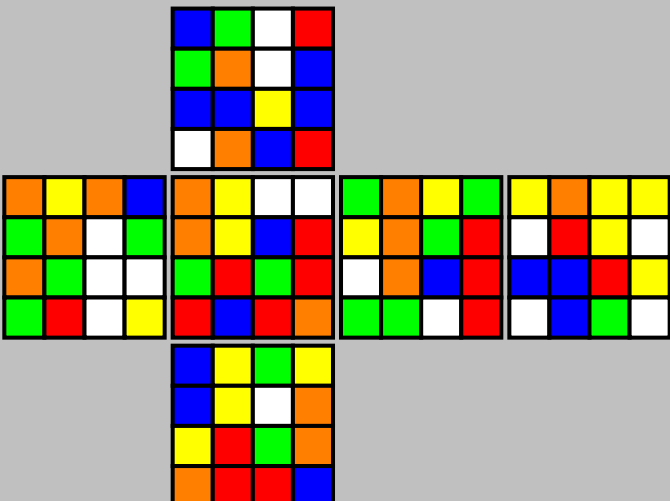
Graded by: _____ Result: ____

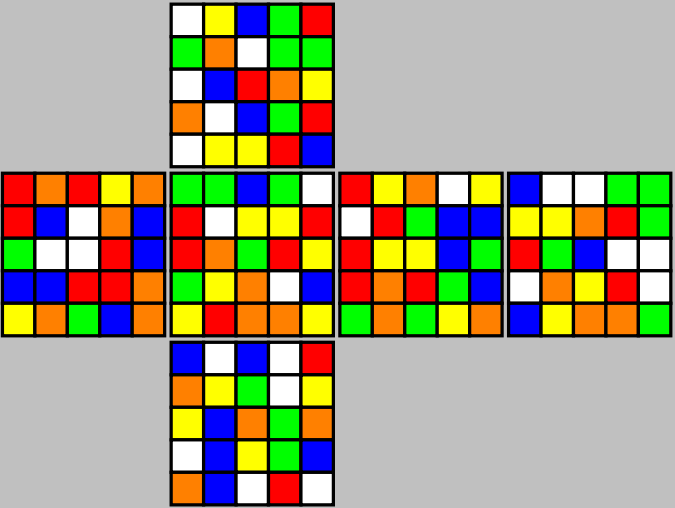
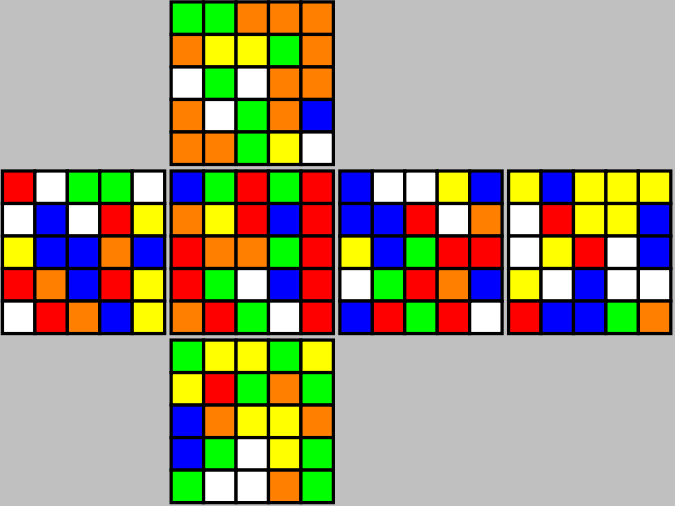
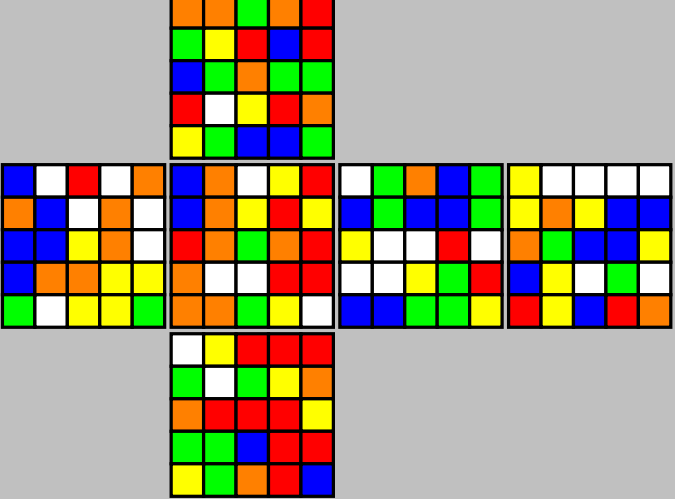


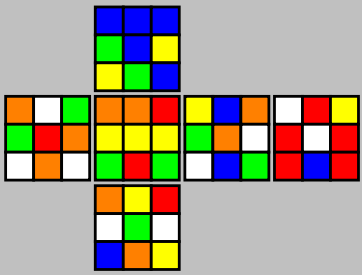
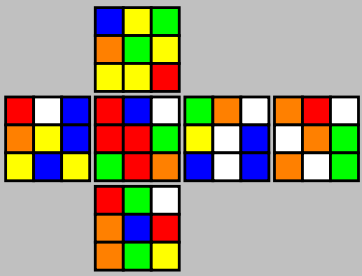
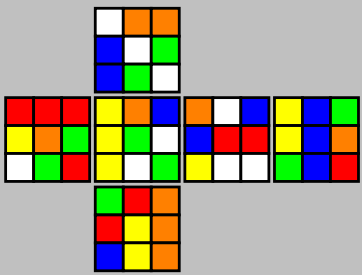
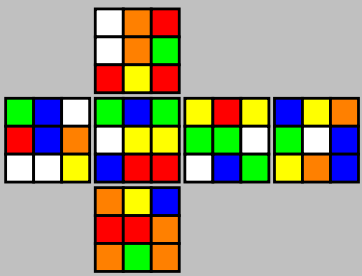
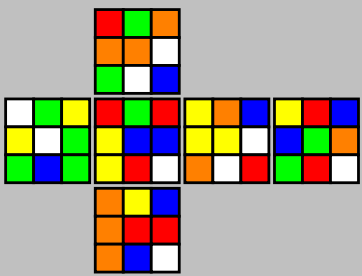
Scramble: R' U' F R2 U2 B D2 B' F2 L2 B D2 L2 D2 L' B D L U' R2 D B2 D2 R' U' F

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

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

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

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

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

6.

D B2 D' B2 U F2 D

L2 F2 L B D2 U L'

D' R D' L' R B' Rw2

Uw