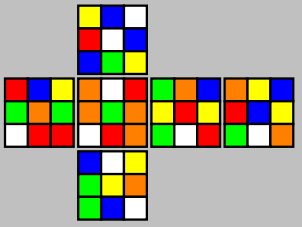
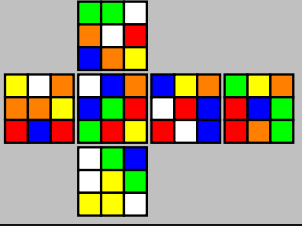
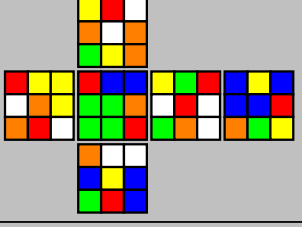
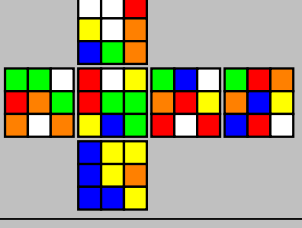
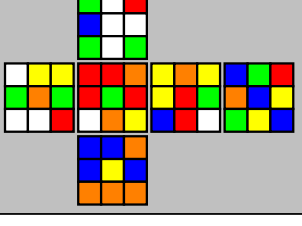
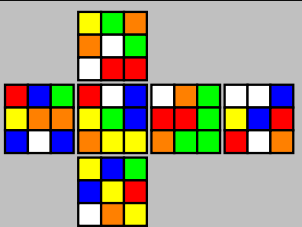
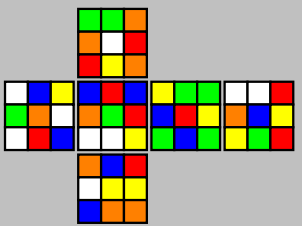
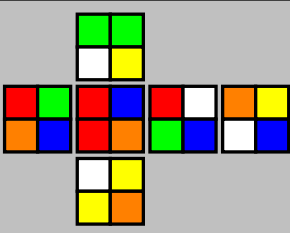
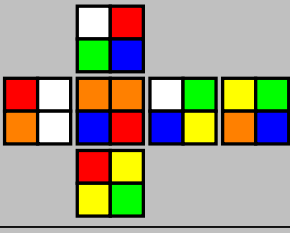
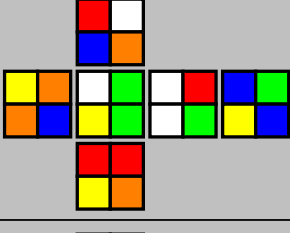
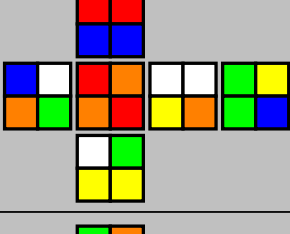
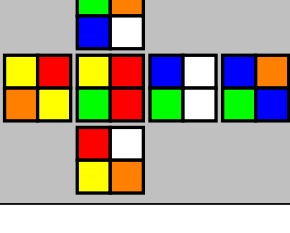
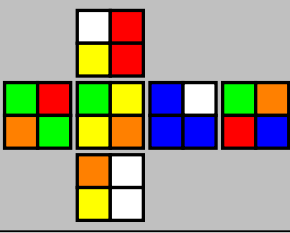
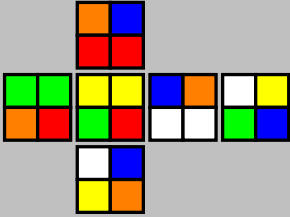


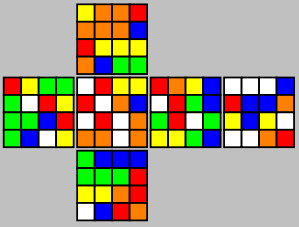
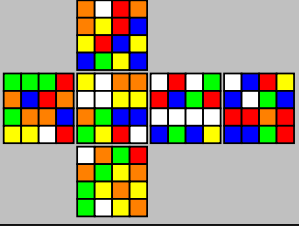
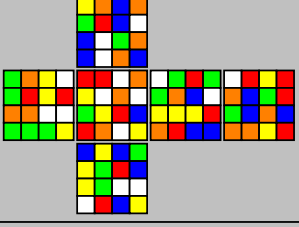
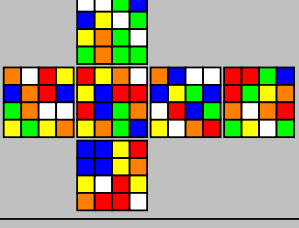
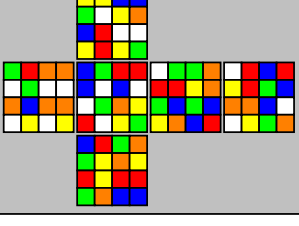
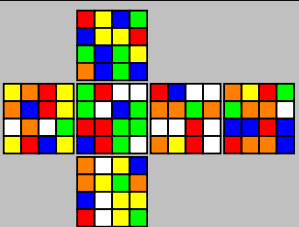
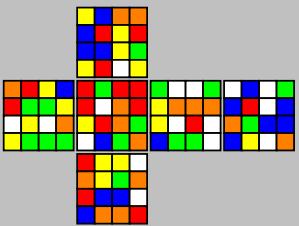
1.	U2 L2 U2 F2 D' F2 L2 U2 R2 F2 R2 B D U' B' R' F L D2 B' U	
2.	R U2 F' D2 R2 U R L2 U' F B' U' R2 U' F2 D' B2 U F2 B2	
3.	L' B U R' B2 R F U' B' D2 L' U2 L2 U2 F2 L' B2 L B2 L2	
4.	R' U2 F2 U2 L B2 L R2 F' L B' U' B D U2 L F2 L R2	
5.	R2 F2 D' L2 U' B L B2 D' U2 F D2 L' F2 D' F2 R'	
Extra scrambles		
E1.	L2 B2 U2 L R B2 R D2 U2 F' U' B' L' R D' L2 U2 B F' U	
E2.	B2 D L2 B2 D2 F2 D2 B U2 R D' B2 F' R2 D' L2 U2 B F'	

1.	U R U' R U2 R' F R U' R' U'	
2.	R2 F U2 F2 R U R' F R2 U2 R'	
3.	R2 U2 F R U R U2 R2 F U2 F	
4.	R' F R2 U2 R' U' R F' U' F' U'	
5.	R' U' F U2 F' R F U2 R2 U2 R'	
Extra scrambles		
E1.	R' F R U2 R' U' R F U' R F	
E2.	R2 U' R2 F R2 F' R2 U2 F R U	

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4x4x4 Cube Round 1

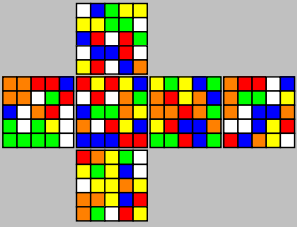
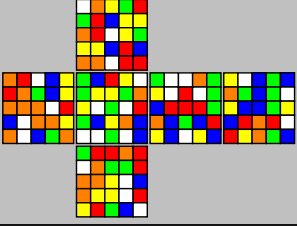
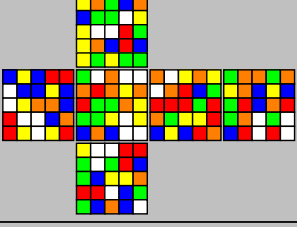
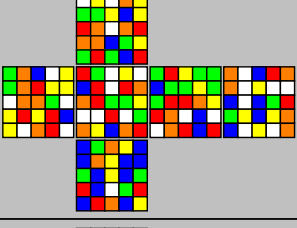
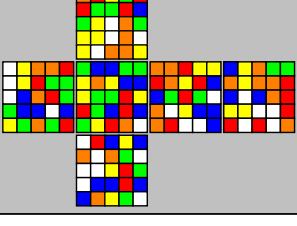
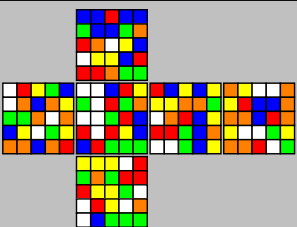
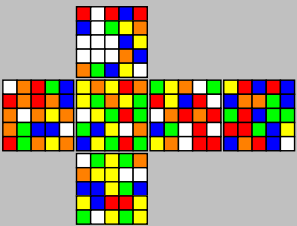
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1.	L2 F' R2 D2 F2 U2 L2 B' L2 B R' B2 U' F' R B U2 R F2 R F2 Fw2 Rw2 B2 R B2 Uw2 F' Uw2 R2 F R2 B Uw' B' R F' L B Fw' Uw U B' Rw' L2 B2	
2.	U' F L' U' B D' L B2 L D B2 R2 L2 B2 D2 R2 U B2 U B2 Rw2 B' L Fw2 L2 Fw2 R' F2 R2 U2 B' Uw2 B' Uw B L Uw2 D' R Uw Rw Fw Rw' U2 Rw' Fw2	
3.	B2 R U2 L2 F2 R2 L F2 L' F R' D L' F' U2 R2 F2 L Rw2 U L2 Fw2 B R2 Uw2 F' U' F' R2 Rw Fw2 Rw' U2 F D R' Uw' Rw2 Fw' F' B' Uw	
4.	D2 B' R2 B D2 F U2 B2 L2 D2 F U R' F' L D2 B2 L2 F' R' Rw2 Uw2 B R2 B2 R Uw2 L' D2 U2 F' B' Rw2 Uw' B U D' Fw' U' R Fw2 Uw Rw2 Uw'	
5.	U2 B2 L' D2 F2 R2 B' U R' D2 F2 R' U2 R B2 U2 R2 F2 Uw2 Rw2 L' B2 D2 Rw2 D' U2 L' Fw2 D' L F2 Fw R' B2 Uw2 D' R2 Fw Uw Rw' D' Rw' B' L'	
Extra scrambles		
E1.	R' D2 R2 B2 U2 F2 R U2 R2 U B U D' L2 U2 B2 F2 R D' R' Uw2 Fw2 B' Rw2 D' R2 Uw2 L2 U' F' L2 D' F' Rw D Rw' R D2 F' Rw' Uw' B Uw2 D' Fw2	
E2.	R2 U' R' D' B' F2 R' U2 R2 B R2 B2 L2 D B2 F2 D' L2 Uw2 R2 Uw2 R' Fw2 U2 B' L F Uw2 B U B2 Uw R F R2 Fw D2 Fw L Fw' Uw D'	

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5x5x5 Cube Round 1

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1.	R2 Uw U' F2 Uw' Rw2 Dw' Bw U' R2 Dw2 R2 D2 Uw Fw' Rw2 Lw D Lw R D2 F2 D2 L2 Dw' B Lw2 L' F Fw Dw' B' Fw' Bw' R Rw2 B' L U2 Dw2 Fw' D2 L2 Bw' Uw L Fw2 Bw Lw2 B2 U' L' F' Dw F' Rw2 U2 F2 L' B2	
2.	Rw F' Fw' Rw Uw' Dw' R' L' D Rw2 Lw' B2 Uw Bw R2 L Fw B2 Lw2 L' D' Bw Uw F2 Dw2 Lw' Rw D' R' Uw2 R' Fw F2 U2 D R' B2 L Uw Bw2 L2 Bw Dw Lw2 D' R2 Bw Fw U2 B' Rw2 Dw' L' Dw2 F Fw2 L D2 Bw' Lw2	
3.	Fw Uw2 Dw Lw Uw2 D Lw D' L' Fw2 Uw U L Lw' R B' F' Uw' Rw' B D Bw R2 F2 Uw2 Lw' Dw' Uw' Lw2 B2 Uw Fw' Uw' Rw Uw' D Bw' Dw2 B F' D2 Uw2 Bw L' Rw' Dw2 F Fw2 Uw2 D2 U' Fw2 Lw2 F B2 Uw2 L Fw2 Dw' Lw2	
4.	B' U F2 L D2 R' F Fw Lw2 Bw' Uw L' Rw2 F2 Uw2 D2 B2 Fw' Dw Uw2 L2 Bw' R2 B Lw2 L' Rw2 Fw2 Bw' Lw Uw Bw B2 Dw' Lw2 F' Dw Lw' R' B L B2 Uw' Fw2 Rw2 Bw2 F' D2 Bw2 Uw D2 Bw2 Uw2 Lw D Rw Lw2 Bw U L'	
5.	Lw2 D2 U Uw2 Bw2 Dw Bw2 Rw2 Uw2 D2 Dw2 Lw D2 Fw2 L' B U2 Bw2 Lw2 R' Dw L' Lw Uw' B' Bw' D F2 B2 Uw' U Lw' Bw' U' B' R' B' Fw' D2 Fw Uw2 F' Bw L F' Dw F2 Lw Fw' L' R' Rw Fw' F R2 Uw Rw2 Uw2 Bw Rw	
Extra scrambles		
E1.	U' F Rw' Dw' R2 Fw L' Fw R Rw U L R' Fw' B D' Dw' B2 Uw F D2 Uw Fw D2 Bw Lw L Rw2 U' Lw' Rw' F2 Lw Dw' R2 Uw' F2 Rw2 B R2 B Dw2 L U' Lw2 D2 L2 Rw' R' Dw Rw2 U' F' D' L2 U' B L Dw' U	
E2.	Rw' Bw2 L Dw' R Lw B U2 L F B Rw2 Fw Dw L Dw' B2 L U Rw Lw2 L' U Bw2 D' R F2 Rw Uw' Fw' L' F L' B2 Rw' Uw2 F Rw' D' Fw2 D2 Fw2 U' F' R Dw2 Lw' D2 L' U2 D' Lw Bw Uw2 Fw2 D2 B' R' Dw2 Uw'	

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6x6x6 Cube Round 1

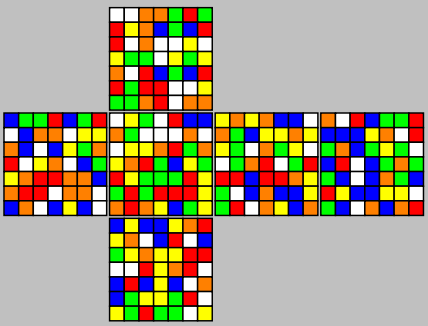
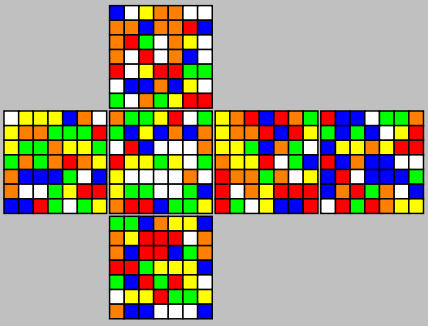
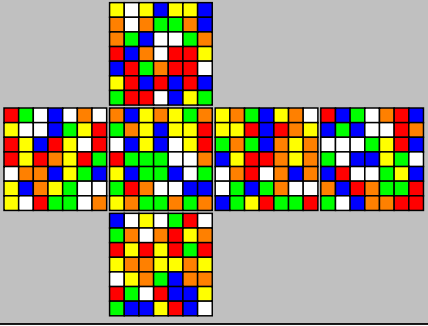
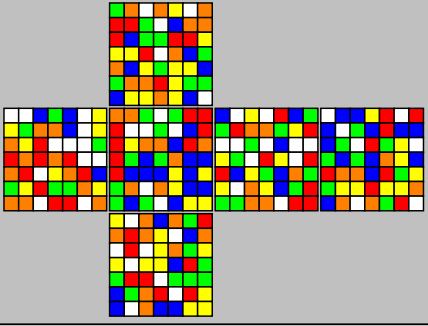
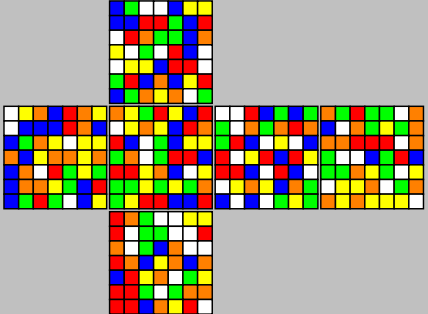
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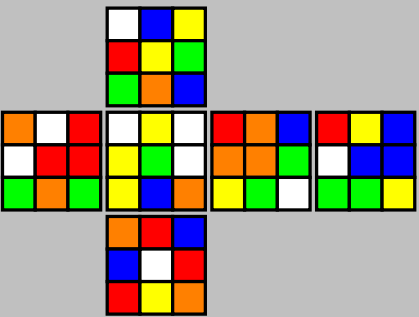
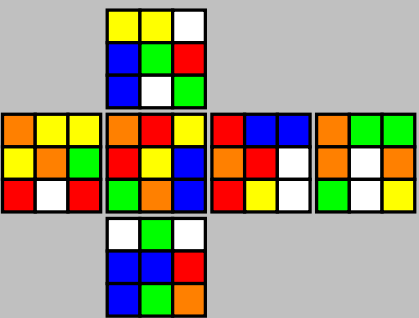
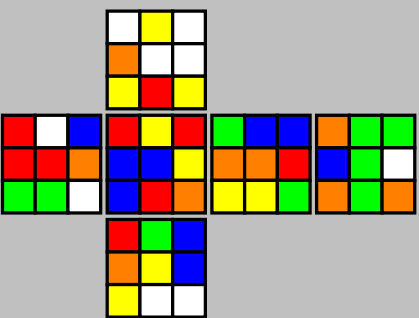
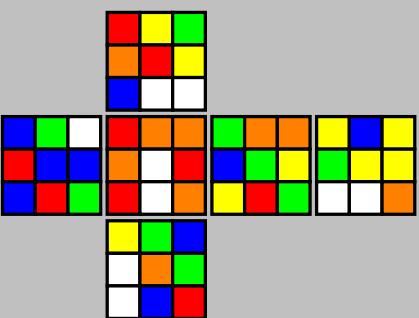
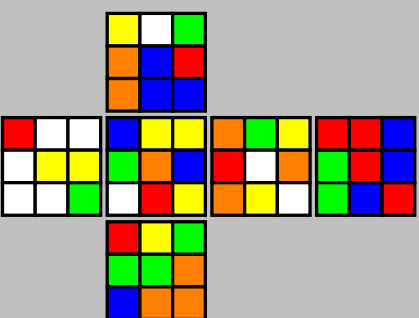
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	Lw'	Uw2	3Uw	D2	L	Uw'	3Rw	3Uw'	L'
	R'	Rw	3Uw'	3Rw2	Bw	R2	3Fw	3Uw'	R2
	Rw2	F'	3Uw2	R'	Dw'	Fw'	U2	Fw2	D
	B2	F'	U2	3Rw2	F'	B'	R	Uw2	R
	F'	R	3Rw	D'	3Fw	3Uw	Uw'	F'	Rw
	Dw'	R'	U	D	L	3Uw2	3Fw	U'	D2
	R'	F'	U	Lw'	B2	Rw2	3Rw2	Dw'	Uw'
	Bw2	U	Rw2	3Uw'	U	D'	Fw2	Uw'	
2.	Uw'	Lw'	B'	U	D2	B'	3Rw'	3Fw	F'
	U2	B	Fw'	Dw2	L2	F'	Bw2	D'	Rw2
	R2	U2	B	Lw	Rw'	B2	Dw'	Rw	F2
	Lw2	L2	D2	L	Dw2	F'	Dw'	Fw2	U2
	Lw2	L'	B	L2	B'	F'	Uw	3Fw	L'
	Uw	R2	3Uw'	Bw2	U'	L2	Bw'	Fw	Rw
	U2	F'	U'	Dw'	3Rw'	Fw	F2	Rw2	D'
	Rw'	R	3Fw	U2	Fw'	F'	3Uw	L'	R
	B2	3Rw'	3Fw'	U	L2	3Rw'	3Fw'	U	
3.	3Rw2	Bw	D2	Dw	U'	L	Uw2	L2	Lw2
	D	Uw2	F'	R'	Fw	3Rw'	Fw2	Dw2	D'
	Bw'	Uw'	3Uw'	B	L2	3Uw	Lw'	R	B2
	3Uw2	F'	Uw	F'	Rw	3Rw2	Bw'	3Uw2	L2
	3Rw'	U	D	Lw	D	3Fw2	U	Bw'	3Uw'
	F'	Bw	Lw2	Rw2	F'	R	Dw2	B	Dw2
	L	R'	Bw2	Lw'	F'	U	Uw'	3Rw2	Dw'
	Lw'	Bw2	F'	Lw2	Bw	3Rw	Fw'	Uw2	3Rw2
	Fw'	3Uw2	Uw	Dw2	L'	3Fw	Fw	3Rw'	
Extra scrambles									
E1.	3Rw'	B2	Fw	R	3Rw	3Fw2	R2	D2	Uw
	Rw2	Uw	3Fw2	Fw	Dw'	Rw2	Lw	Bw'	R'
	Uw'	Fw2	3Fw2	L'	Bw	3Fw2	Dw'	U	B'
	3Rw	B'	3Rw'	Fw2	U	Dw	D	B'	U'
	F2	3Fw'	U	Dw	3Rw	3Uw2	Dw'	B2	Fw2
	Bw'	Rw'	L'	U'	Uw'	3Rw	Bw2	3Fw	L2
	Bw	D2	Dw'	Lw2	L'	3Rw2	3Fw	R	B
	D2	Fw	U'	Rw'	3Fw2	3Rw2	3Uw'	B'	Rw
	R2	Bw	Dw2	R2	Fw	L'	3Uw	Rw'	
E2.	U'	B'	3Uw'	Uw2	Rw'	Dw	F'	D'	3Uw
	L2	Uw2	D2	3Fw'	3Rw2	U	F'	Lw'	Dw2
	3Uw'	L'	3Uw'	3Fw'	B	L2	U2	Rw	3Uw2
	Lw'	B2	F'	Dw2	F'	Fw2	Rw'	Fw'	D2
	3Rw	Lw2	B	L	Uw	Rw'	Lw2	Dw2	D2
	Uw2	R2	Bw2	3Uw2	F2	L	D	Lw2	Uw'
	Lw2	Bw'	Rw	Fw2	U'	L'	3Rw'	Uw2	Bw'
	Uw2	3Fw'	Bw'	U	B'	Fw2	3Rw2	D	Fw
	F'	B2	Lw	L	B	Fw'	F'	3Rw	

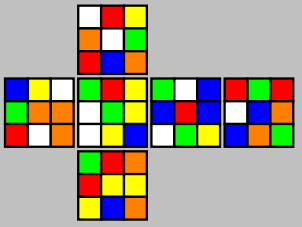
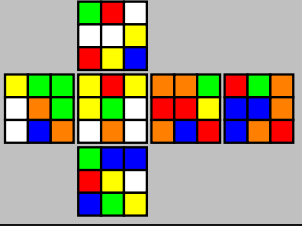
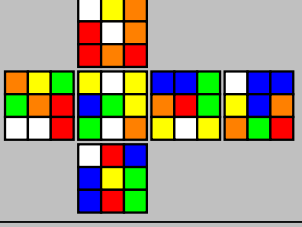
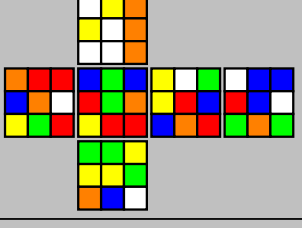
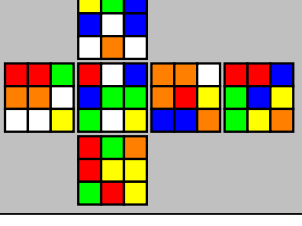
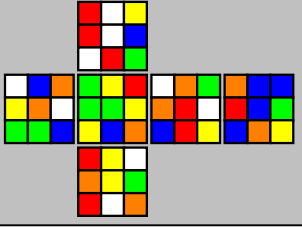
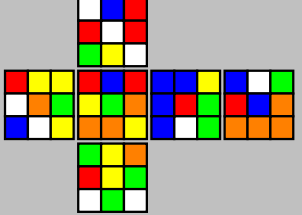
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7x7x7 Cube Round 1

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1.	Bw' 3Uw2 Dw2 3Rw' Dw' 3Dw2 3Bw Dw F' 3Rw2 F' Rw' Uw 3Uw' R' Rw Uw D R Rw B U' 3Fw2 R' D' Lw2 U2 Rw Dw' 3Fw2 3Lw 3Uw2 Uw2 L' Dw 3Rw2 U2 3Uw Dw B Rw R Bw F' Lw Bw' R' 3Fw' 3Rw B' 3Uw2 Uw Fw' 3Lw' 3Dw' 3Rw' 3Uw2 R 3Lw 3Fw 3Uw Bw' 3Uw2 Dw Fw2 3Fw U 3Uw2 Lw' Rw2 Fw2 3Bw' Bw' D' Fw2 3Uw Dw2 3Fw2 Lw 3Dw Uw 3Bw' 3Dw D' 3Rw F2 3Lw2 F' 3Dw' Fw' L' Bw' Dw2 F' 3Dw Bw Dw' Bw' Uw Dw2	
2.	3Uw' 3Dw' Lw L2 D' 3Bw2 Rw 3Lw 3Uw2 3Fw 3Uw Uw2 3Fw2 Uw' F2 3Fw 3Dw2 3Uw Dw' L F' 3Dw2 U 3Bw' 3Uw' 3Lw 3Bw' 3Rw' Lw2 Rw' 3Lw 3Bw' Rw2 B Uw 3Fw' 3Bw Rw' B' 3Bw2 R' 3Fw' 3Dw2 U' Lw U2 3Uw' R L 3Bw2 L 3Lw U2 Bw2 3Rw Dw2 Uw Bw Dw B 3Bw' Bw2 Fw2 Dw' B' Dw' R D L' 3Fw B Dw' R' 3Fw D U 3Bw' Lw 3Uw U2 Lw F' 3Uw B2 Rw 3Rw 3Fw Rw' U L2 Dw' L2 Dw Bw2 U R' Rw2 3Rw2 3Lw2 3Fw	
3.	3Fw Fw2 3Dw' Rw U2 Fw2 U2 3Rw B' 3Bw' D' Uw' 3Fw' D2 Fw2 R' Uw B' 3Uw2 Fw 3Bw2 L Rw' F' 3Lw' 3Bw' 3Lw' U2 3Lw' B 3Rw2 3Dw Fw Dw' B Bw' 3Bw2 Fw' Rw2 D 3Rw' Dw 3Bw2 Bw' U' B2 F' D' 3Uw Bw 3Bw' 3Dw' U' 3Uw' R F2 3Bw2 Bw 3Uw' R2 Bw' 3Uw' R' B' Dw' 3Bw' 3Rw2 Fw' Bw' U L R' Uw' 3Fw' Fw2 3Dw2 3Uw 3Rw' U2 3Uw2 Uw' F' 3Bw R D' F' D 3Fw Rw' Dw2 3Dw2 R2 L2 Bw' 3Bw' Lw2 F2 Bw 3Dw2 D	
Extra scrambles		
E1.	D2 B 3Lw2 Bw2 L 3Lw D 3Lw' 3Dw2 B' 3Rw' R2 Uw2 R2 3Dw2 3Rw 3Fw2 B Rw D Rw' Fw' Uw Lw 3Lw2 D2 B L' 3Bw' F Uw Bw' D2 3Lw Bw2 Fw Rw2 3Rw 3Lw2 Dw2 Rw2 3Lw' 3Bw 3Rw U Rw2 3Rw' L' R2 Fw2 Bw' 3Uw 3Rw' L2 3Dw2 F' 3Lw2 Rw2 3Fw R2 Lw Fw2 3Uw Bw2 D' R Rw2 3Lw2 Uw2 3Uw' 3Lw D2 Fw2 R Fw U' 3Dw2 3Fw2 3Lw B2 F' Bw 3Bw' R Dw L Bw D U Bw' 3Fw Fw 3Bw2 Lw' F' Uw' L 3Bw' 3Dw' Bw'	
E2.	3Bw2 Dw2 Lw Dw2 3Lw Lw2 B2 Uw 3Dw2 3Uw2 Lw L2 F' 3Dw2 3Fw B Bw 3Uw2 3Rw2 3Fw Uw2 Rw Uw2 Lw' Bw2 Fw Dw2 R' 3Rw' 3Uw Bw2 Fw F' 3Uw Rw 3Uw2 3Dw2 B 3Bw' 3Uw B U 3Bw 3Fw Dw Lw' R' B' 3Rw' 3Lw2 Lw' 3Dw Rw Uw 3Dw 3Fw 3Lw Lw2 3Uw2 3Rw' 3Lw 3Dw' Rw' B Uw2 B 3Fw2 Fw2 D' Rw' 3Uw2 3Fw2 L U2 3Fw' 3Rw' 3Lw' L2 3Uw' Bw' Dw F' L Rw' D2 Bw Lw2 Fw2 Dw 3Rw Dw2 L Lw2 3Fw Bw' Dw Rw2 3Dw2 B' 3Fw'	

1.	U L2 R2 U R2 D2 U B' R' F' D R' B' D' L D2 R' F2 U2 Rw2 Uw2	
2.	B' F' D2 R2 U2 R2 B L2 D' L' B F L2 D L B R' B F U2 Rw	
3.	D2 F' D2 B' R2 U2 R2 B R2 F2 L R2 D L2 B2 D B' R' B2 L2 Uw2	
Extra scrambles		
E1.	D' B2 R2 U' L2 B2 U2 F D B' L2 R' B2 L U' F' U L2 D Fw' Uw'	
E2.	F R2 U2 B' L2 D2 B U2 L F' U' R' B2 F L' U' L' F2 D2 F' Rw' Uw'	

1.	B' L2 F' D2 L2 B' D2 L R F' L2 B2 U B F D R' F'	
2.	D R2 B2 R2 U' L2 D' B2 L' U F2 L' D' L U L R B D	
3.	D2 F' R2 F' D2 B F2 U' B2 D2 F R U L' D2 U' F U	
4.	F2 R' L U B R2 F' R D R B U2 D2 R D2 B2 L2 B2 L	
5.	F2 R2 L D F R2 F' B R U2 F2 B' D2 L2 B L2 F' U2 F U2	
Extra scrambles		
E1.	D B2 R2 D U' L2 R2 D' R' B R' U R D F' L2 D' L2 F	
E2.	U2 B U2 R2 D2 B R2 D2 B' F2 R' U2 L B2 F U' B D R F U'	

Fewest Moves

- Notate your solution by writing one move per bar.
 - To delete moves, clearly erase/blacken them.
 - Face moves F, B, R, L, U, and D are clockwise.
 - Rotations x, y, and z follow R, U, and F.
 - ' inverts a move; 2 doubles a move. (e.g.: U', U2)
 - w makes a face move into two layers. (e.g.: Uw)
 - A [lowercase] move is a cube rotation. (e.g.: [u])
-
- You have 1 hour to find a solution.
 - Your solution length will be counted in OBTM.
 - Your solution must be at most 80 moves, including rotations.
 - Your solution must not be directly derived from any part of the scrambling algorithm.

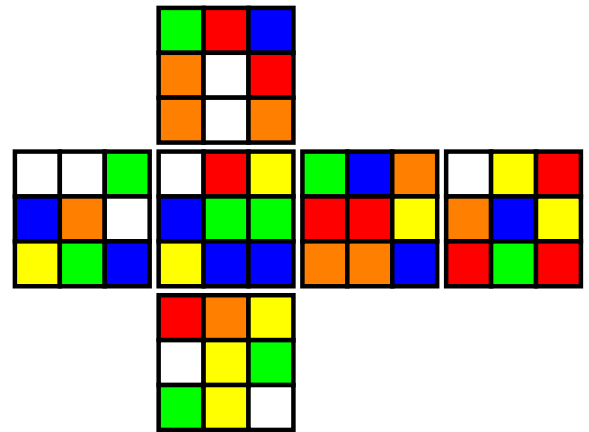
NU_CUBING_11-29-2015
3x3x3: Fewest Moves Round 1
Scramble 3 of 3

Competitor: _____

WCA ID: _ _ _ _ _

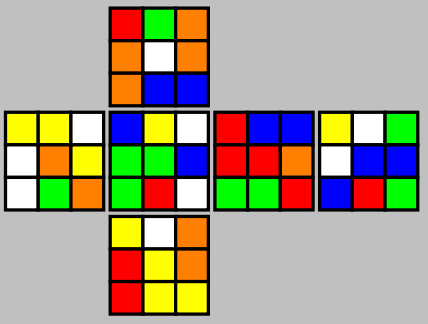
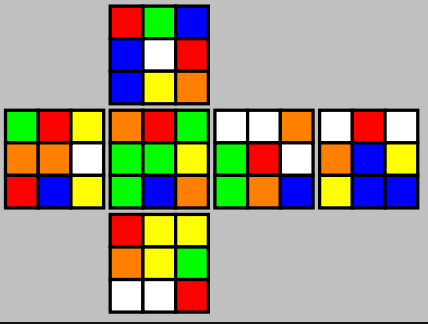
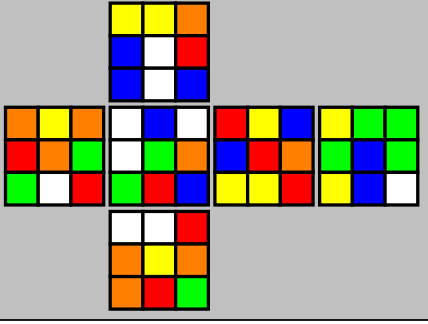
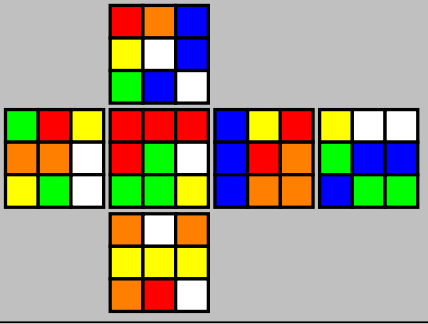
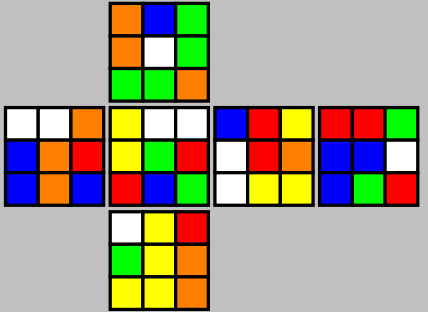
DO NOT FILL IF YOU ARE THE COMPETITOR

Graded by: _____ Result: _____



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

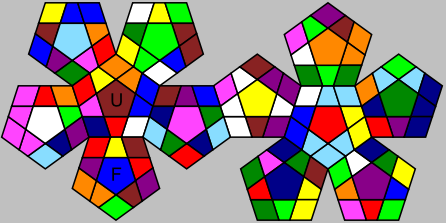
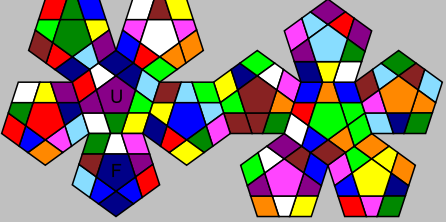
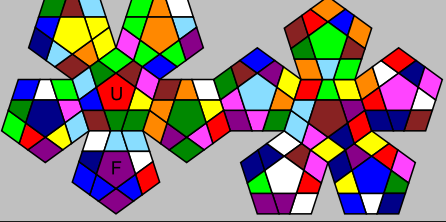
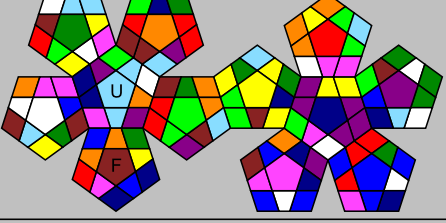
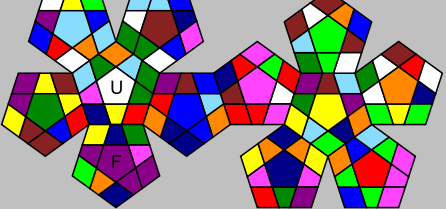
This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

1.	D2 R2 D2 R2 B' L2 F2 L2 R2 F' R' U2 B R B' R B D U'	
2.	R' L2 D F R D L U L U R2 U2 L' D2 B2 R L2 U2 R2 F2	
3.	B2 L2 U2 L U2 F2 L' R' D2 U2 B' D L2 D B2 F' D' U2 B' L'	
Extra scrambles		
E1.	F2 U' R2 D2 B2 R2 U2 F2 U' R2 U B' R D2 B' L2 D2 U2 F' U'	
E2.	B2 F2 R2 D2 U' R2 D R2 F2 R B2 L' F D L' R D R' B2	

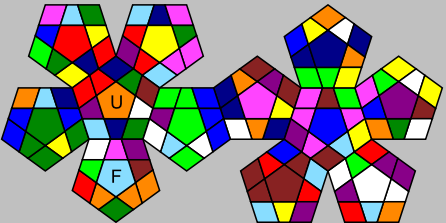
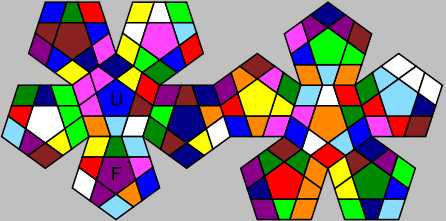
2015/08/07

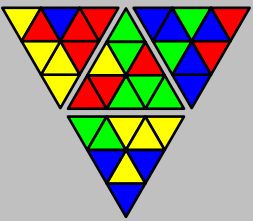
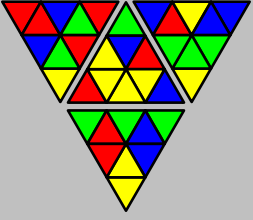
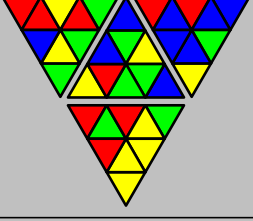
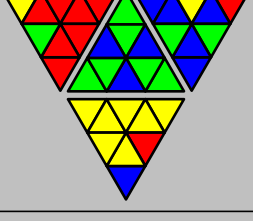
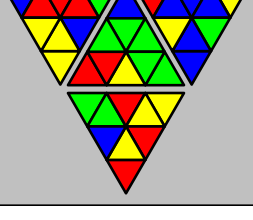
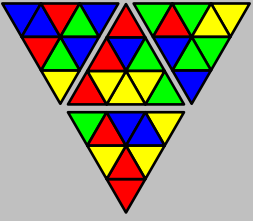
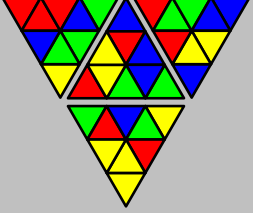
Megaminx Round 1

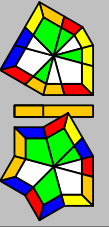

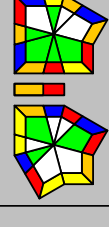
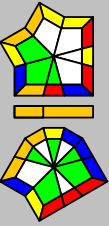
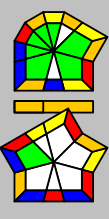
NU_CUBING_11-29-2015

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	

Extra scrambles

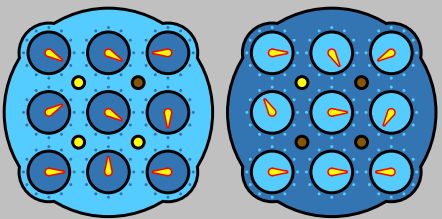
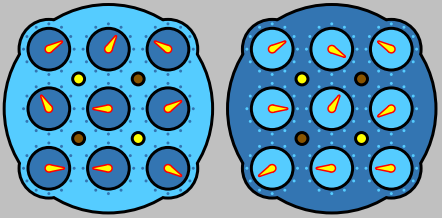
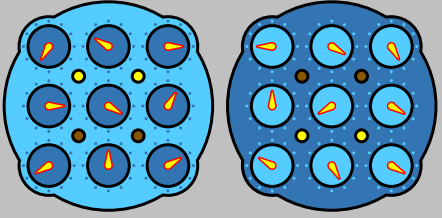
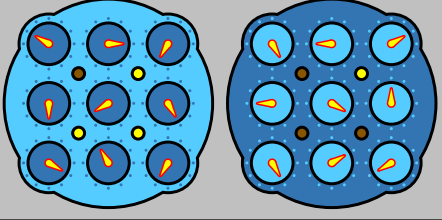
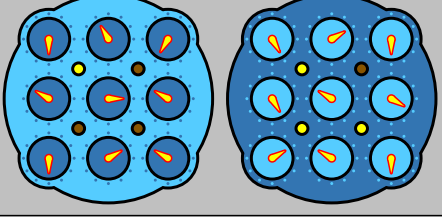
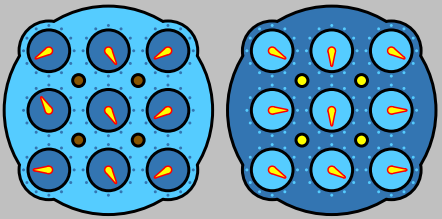
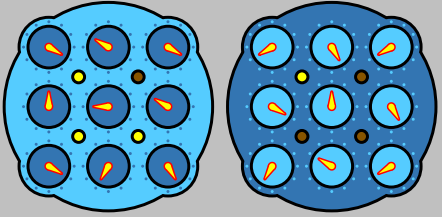
E1.	R++ D++ R-- D++ R-- D-- R++ D++ R++ D-- U' R-- D-- R++ D++ R-- D++ R++ D++ R++ D++ U R++ D-- R++ D++ R-- D++ R++ D++ R++ D++ U R-- D++ R++ D-- R-- D-- R++ D++ R-- D-- U' R-- D++ R++ D++ R++ D-- R-- D-- R-- D-- U' R-- D-- R-- D-- R++ D-- R-- D++ R-- D-- U' R-- D-- R++ D++ R++ D-- R++ D-- R-- D++ U	
E2.	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'	

1.	R' U' R B U' B R' L U' R B b'	
2.	B' L R L' U' L R' B L R U' u' l' r	
3.	U' L' U' R B L R' L B U' B u l r'	
4.	B' U L B' U' R B' U R' U' L' b'	
5.	B R' U R' L R' L' B U' B L u b	
Extra scrambles		
E1.	R' U B' R' L R U R' B' L U' u l' r'	
E2.	B' R B' L' B' L' R L B U' B' u' l' r	

1.	$(0, 5) / (3, 0) / (-2, 1) / (-1, -4) /$ $(-3, 0) / (4, -5) / (0, -1) / (0, -3) /$ $(-1, 0) / (4, -4) / (-4, 0) / (6, 0) /$	
2.	$(3, 2) / (-2, -5) / (0, -3) / (-1, -1) /$ $(3, 0) / (4, -3) / (-3, -3) / (-1, 0) /$ $(-2, -4) / (0, -4) / (2, 0) / (-4, 0)$	
3.	$(0, -1) / (-5, 4) / (0, -3) / (3, 0) /$ $(0, -1) / (3, -3) / (3, 0) / (0, -4) /$ $(0, -5) / (-3, -4) / (4, 0) / (-1, 0) /$ $(-5, 0) / (-5, 0)$	
4.	$(0, -1) / (-3, -3) / (-5, 4) / (0, -3) /$ $(-3, 0) / (-3, 0) / (0, -4) / (0, -3) /$ $(-1, 0) / (0, -2) / (0, -2) / (1, -2) /$ $(0, -4) / (-1, 0)$	
5.	$(-2, 0) / (0, 3) / (-1, -1) / (3, 0) /$ $(-3, 0) / (3, 0) / (-3, -2) / (-3, 0) /$ $(4, 0) / (-1, 0) / (0, -4) / (-3, 0) /$ $(-4, 0) / (-3, 0) /$	
Extra scrambles		
E1.	$(4, 0) / (-1, 2) / (3, 0) / (4, -5) /$ $(3, 0) / (3, 0) / (0, -4) / (-3, 0) /$ $(5, -2) / (0, -4) / (6, -2) / (6, 0) /$	
E2.	$(0, -1) / (0, -3) / (1, -5) /$ $(-1, -4) / (1, -2) / (2, -3) /$ $(-3, -3) / (0, -5) / (4, 0) /$ $(4, -1) / (5, 0)$	

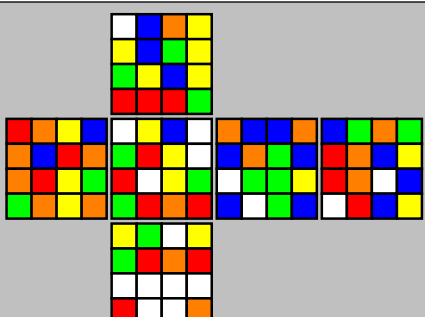
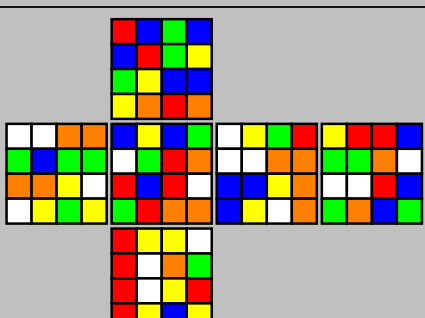
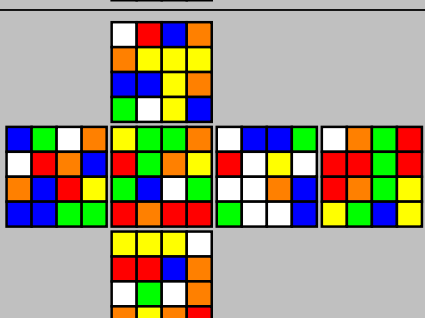
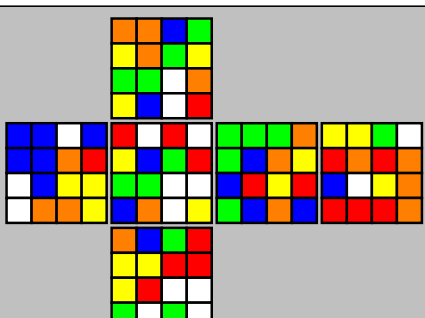
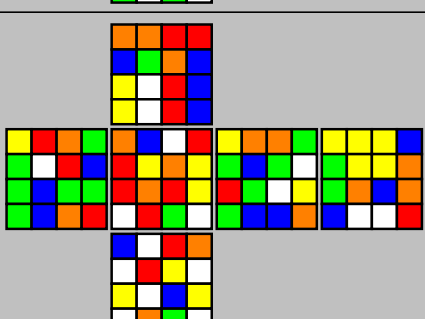
2015/08/07

Rubik's Clock Round 1
 NU_CUBING_11-29-2015

1.	UR6+ DR4- DL1+ UL0+ U6+ R2+ D1+ L5- ALL4- y2 U4+ R2+ D0+ L2- ALL0+ DR DL UL	
2.	UR1- DR2+ DL2+ UL4+ U1+ R3- D5+ L1- ALL4+ y2 U0+ R2- D4- L5- ALL4- DR UL	
3.	UR2- DR4- DL2+ UL2+ U3+ R2+ D6+ L0+ ALL1- y2 U4+ R1+ D6+ L3+ ALL2+ UR UL	
4.	UR6+ DR3+ DL2- UL5- U1+ R2- D6+ L1- ALL2- y2 U3- R2+ D5+ L3+ ALL1+ UR DR DL	
5.	UR6+ DR2+ DL4+ UL1- U5- R3- D2+ L3+ ALL2+ y2 U1+ R5+ D4+ L5+ ALL0+ UL	
Extra scrambles		
E1.	UR1- DR3- DL0+ UL1+ U2+ R5- D3+ L2+ ALL5- y2 U0+ R6+ D0+ L3- ALL2+	
E2.	UR1+ DR2- DL1- UL3+ U2- R3- D2- L5+ ALL1+ y2 U2+ R3- D1- L1- ALL0+ DR DL UL	

2015/08/07

4x4x4 Cube: Blindfolded Round 1
 NU_CUBING_11-29-2015

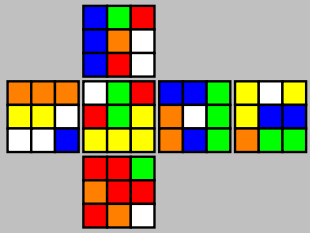
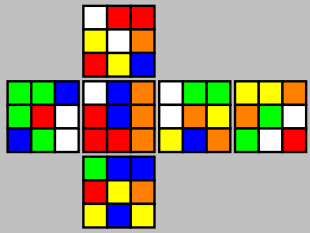
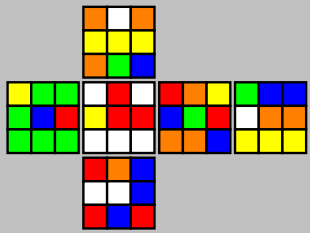
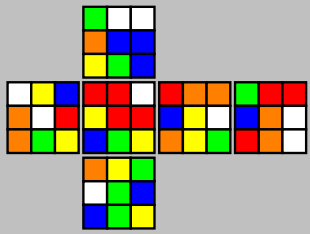
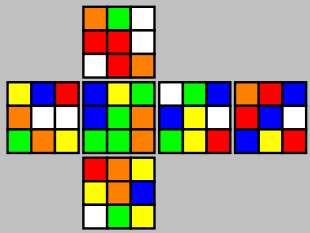
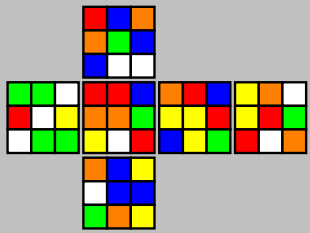
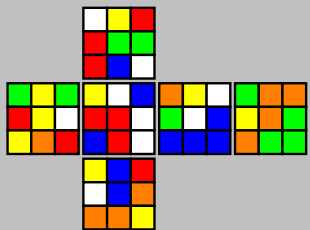
1.	R' F' L' F' U R2 B L	
	U' D' F2 L' R2 F2 U2 R	
	B2 U2 R' B2 D2 Fw2 Uw2 B'	
	Uw2 L' F2 Rw2 F' U2 B Uw2	
	Rw2 R Uw' R' Fw2 B' R U	
	Fw U Rw' D Fw2 D2 x' y	
2.	F' D' R U' B R F L'	
	F B L' U' R2 D L2 D	
	L2 B2 L2 Uw2 F D2 B Rw2	
	Uw2 D R2 B D Fw2 Uw2 F2	
	Rw' Uw2 Rw' F Fw B2 Rw B	
	L F D' x' y	
3.	R2 B2 L' D L2 D' F U	
	L D' L2 F' D2 R2 F' U2	
	L2 F U2 Uw2 Rw2 F' Uw2 U'	
	R2 B Rw2 U Fw2 B R2 B	
	R B Rw' L' F' D' Uw' Rw2	
	Uw' B' Rw' R2 D' x	
Extra scrambles		
E1.	F2 R L U D2 R B2 L'	
	F D2 F2 R2 D F2 U' B2	
	R2 U' F2 Fw2 D2 U Fw2 R	
	U' Fw2 Rw2 B2 L' U' L2 R2	
	B' U' Rw2 Fw' D2 F2 Uw Fw	
	R Uw2 Rw' D' F2 z' y'	
E2.	D2 F2 R2 B2 R2 D2 R2 U	
	B2 D2 U' F L R2 D L'	
	B2 F' U L Rw2 Fw2 D' L	
	Uw2 D2 F2 D' Fw2 R' Uw2 D	
	L' Fw B L' U F' Uw2 L'	
	Rw Fw Uw' L F	

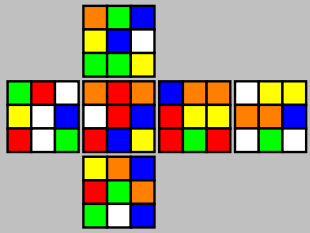
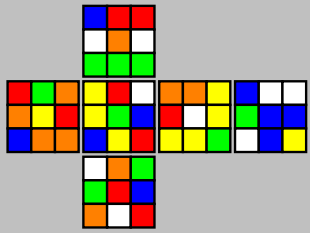
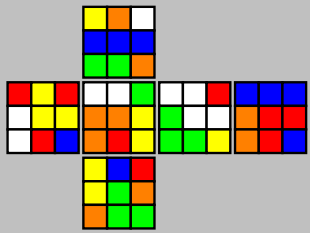
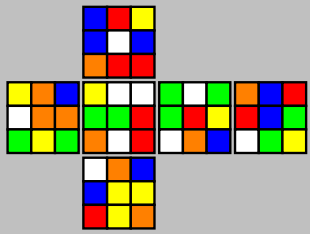
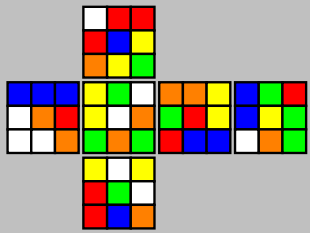
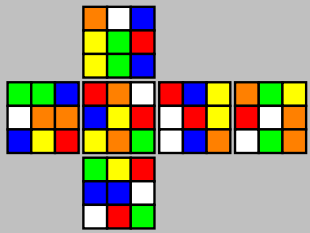
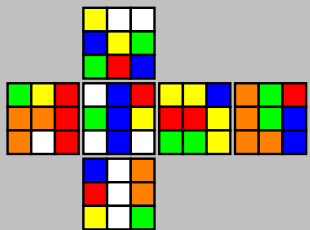
2015/08/07

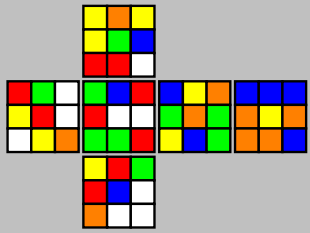
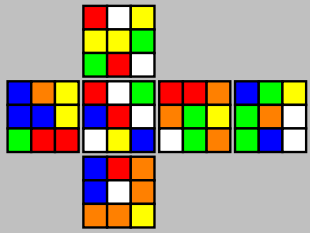
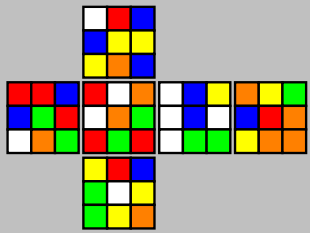
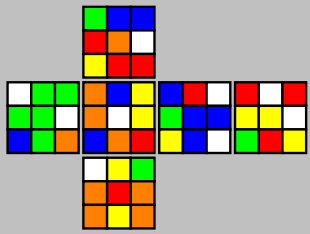
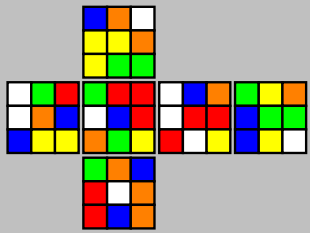
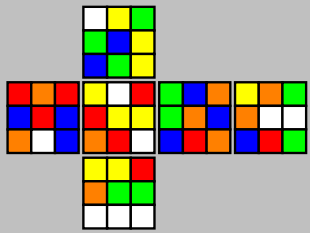
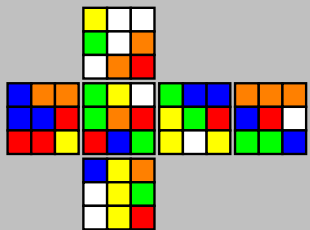
5x5x5 Cube: Blindfolded Round 1

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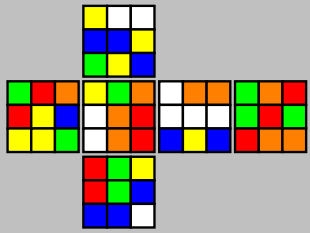
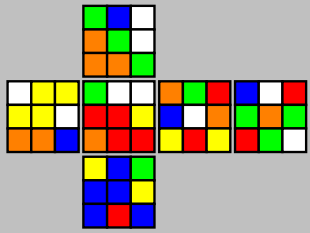
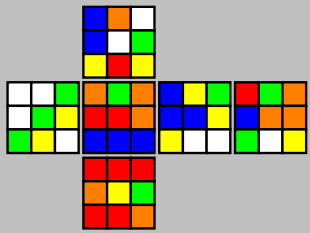
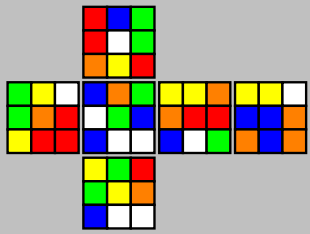
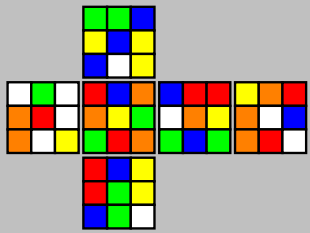
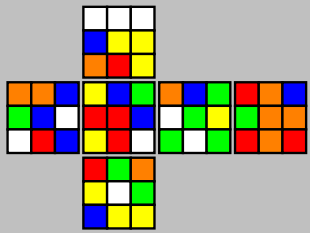
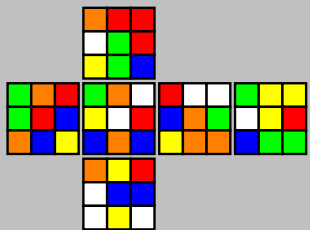
1.	F2	Bw2	Rw	Bw'	Lw	Dw	U	Lw'
	Dw	R'	Lw2	Dw'	Lw'	U	L'	Rw2
	U2	F	Rw	D'	Rw'	Uw	D'	R
	Lw'	Fw'	B'	F'	Rw2	L'	Fw	R'
	Lw'	Bw2	Dw2	Uw'	Fw	Lw	B2	Rw2
	F'	U	D2	Rw	Bw	R'	U2	D
	B2	Dw2	Uw	D2	F'	Lw	B	Uw2
	D	Bw'	Uw	Bw'	3Rw'	3Uw'		
2.	Fw'	Bw'	Dw'	Bw'	D	Uw	B'	U
	Bw2	L'	B'	Lw'	F	Rw'	U2	Dw
	F	Rw	B'	U2	F2	R'	L	B'
	R'	Lw'	Rw	Dw2	Uw'	F'	Rw'	R
	F2	R'	D'	Uw2	Rw2	D	R2	L2
	F'	Fw'	B	Lw	Fw'	R'	B	L2
	Fw2	Lw2	R'	Rw	Uw2	Fw'	B	Bw
	Rw	Bw	B'	L2	3Rw'	3Uw		
3.	Fw'	U	Rw'	D	B2	Dw2	Rw	Dw'
	L	U	R'	D'	Fw	L	U'	B'
	Bw'	Rw'	R	D2	R2	F2	R'	B2
	D'	Dw2	Rw'	Bw	Uw	D2	U	Fw
	U2	B	R'	F	L'	R2	Fw2	F
	Bw'	Uw2	U2	F2	U	Fw2	Bw	L2
	Rw'	R2	F2	Rw2	Uw2	F2	Dw2	R'
	D'	R2	L2	Rw'	3Fw'	3Uw		
Extra scrambles								
E1.	Rw'	Dw'	B'	Fw'	Lw2	B2	Lw2	Fw
	Uw2	Fw'	Bw2	Uw	U'	Fw	R	L2
	D2	U'	F	R	Fw	F'	R'	D
	Fw2	Lw2	F	L'	Lw2	Dw'	Bw'	R
	Bw	F'	L'	Bw2	L2	D2	Dw'	Rw
	Dw2	U'	Fw'	U	Lw2	Fw2	L	U
	F2	B	L'	Bw2	Rw'	F	Uw2	U2
	Dw2	Fw	Lw2	B	3Rw2	3Uw2		
E2.	Lw'	Dw'	Lw2	F2	Dw	B2	Uw	F2
	Uw2	L	Uw2	U	Bw	Dw	R2	U
	L	R'	Fw	U2	R	F'	L2	U
	R	Uw2	B	D2	R'	Rw'	Uw2	F'
	Rw2	Lw	B	U	R'	D'	Rw'	F2
	D	Lw	R'	Fw2	Bw2	Rw	R2	F
	Rw2	R	Dw'	Rw'	U	L2	Uw'	Lw
	Bw	D'	R'	U	3Rw2	3Uw		

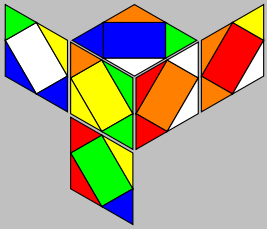
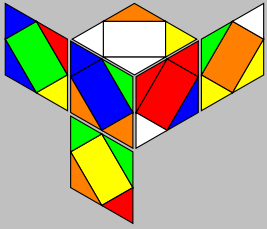
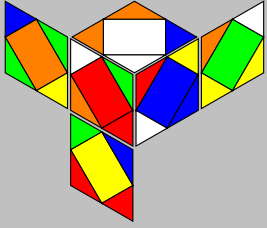
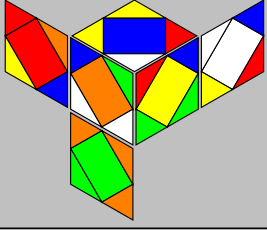
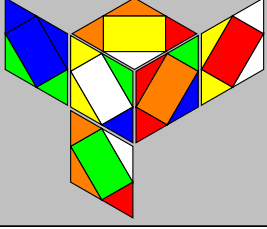
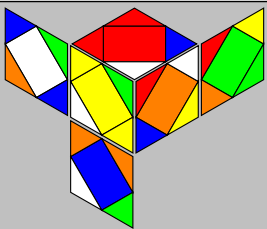
1.	B2 D U B2 U' R2 D' B2 F' L' F L2 B D2 L D B2 D R Fw	
2.	D' L2 R2 U B2 D' R2 B2 U L2 D' B D' L' U' L2 U' F' U B F2 Uw2	
3.	U2 L2 R2 B2 L2 R2 U F2 D F2 U2 R' B2 F' L F D2 L' R' B' Rw2 Uw	
4.	F2 L2 D' B2 D2 R2 D' B2 L2 F' U2 R' B' R2 F L2 B2 U Rw' Uw	
5.	L2 R2 D' L2 D2 B2 U' R2 F2 D' L D' U F' L' D F'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

8.	F2 R2 D F2 U' R2 U B2 R2 F2 R B D2 R F' R D L' B R F' Rw' Uw	
9.	U2 B2 L2 B' U2 R2 F R2 B' F L D' B F' L2 D R' D' B2 L Fw	
10.	B' U2 B U2 R2 U2 F2 U2 L' U2 L2 R D R2 D' F2 R F Rw' Uw'	
11.	U L2 D2 R2 B2 D U R2 B2 R U L' D2 R' B D U F' L U'	
12.	B2 L' F2 R D2 B2 R' B2 R D B' R' D2 L D' R F L2 R U' Rw'	
13.	B2 D2 L2 R2 B' U2 F L2 R2 B' U R' F' L F2 D2 B U Rw	
14.	L2 F2 L R2 F2 R2 D2 F2 D2 F L R' D2 L2 F' U L2 F U' Rw2	

15.	D L2 R2 D F2 U' L2 R2 U' L B L2 U' R' B D' L D' F D' F2 Rw Uw2	
16.	D2 L2 B' L2 B2 R2 F' R2 D2 U2 B D' L F2 D' U L B F D U2 Rw2 Uw	
17.	D2 L' R2 F2 R D2 R' F2 D2 B F' U2 R' B2 D' R' F U' B' D2 Rw2 Uw'	
18.	U F2 U2 B2 L2 U' B2 R2 F2 L2 R' D U2 F D B U2 R' B' L2 R' Fw Uw	
19.	U L2 R2 F2 U L2 U' F2 R2 F2 U2 L D2 F2 R' F' L R B D F2 Rw2	
20.	R2 F' L2 F' L2 F' R2 F' D2 B L' R' F2 D' U B' R B2 D R' F' Rw' Uw2	
21.	L2 F D2 B L2 F' D2 F2 L' R' B L R' D2 R U' R B F Uw'	

22.	B2 U2 F2 U' R2 D L R2 U' B' U' F2 L' D2 B' F2 R2 F' Rw Uw	
23.	B2 U' L2 D L2 U2 R2 D2 L' U2 F' U2 F' L U' L F D Rw' Uw'	
24.	D2 L2 B2 F' D2 B' L2 B' D' F2 D L B L' B2 D2 L' B D Rw' Uw2	
25.	L2 D2 U2 B2 F U2 L2 D2 R D' R' B U' R' D' L2 B' D R2 Fw'	
26.	B' L2 D2 B2 U2 F' U2 B D2 B' R U' L' F U2 R' F2 L' U R'	
27.	U R2 U B2 D2 R2 B2 U' R' B L B2 L' F D R' U' R2 F' R Uw2	
28.	R' F2 R F2 U2 R' D2 L D2 L F' U' L2 U L' B2 U F' L2 B Rw2 Uw'	

29.	U' R2 U B2 D' L2 B2 L2 B' D' F' R2 U' L2 U' R D2 U2 F2 U Rw' Uw'	
30.	R2 D2 U' R2 F2 U F2 D2 F2 R D2 L' B' L2 U' R' B D F2 D' U2 Rw Uw	
31.	U2 B2 U L2 R2 F2 L2 U' B2 D' B' L' B' L F L' B R U B Uw	
32.	B2 D F U' F B2 D B R L' F B R2 U2 B U2 L2 B	
33.	F2 D F2 D' U2 B2 U' F2 L2 F' R' B' L' F' D2 F D2 B2 L' D2 Rw' Uw2	
34.	D' R2 B2 L2 U R2 B2 U2 B' U' B D L D R' F2 D R' U2 F2 Rw2 Uw	
35.	R2 F2 D2 B2 D2 L U2 B2 U2 F2 U R' B' L2 F2 R B2 U B U2 Rw Uw2	

1.	L R L' R' L' U B' U R' L U	
2.	L R B R L' B U' R' B R U	
3.	L R L R B' U B L R U' R'	
4.	L R L R' L R' B' R B' L' U'	
5.	L R L R L U' L' B L B' U'	
Extra scrambles		
E1.	L R L B' L R' L R L' B' U	
E2.	L R' L R' L U' R B' L B L'	