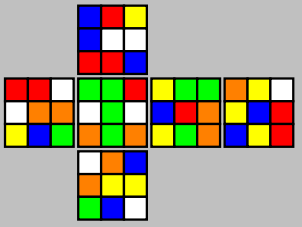
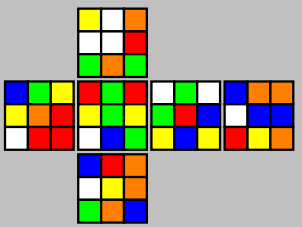
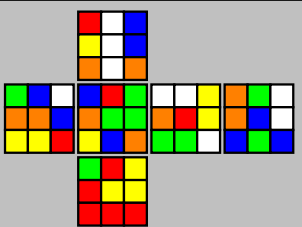
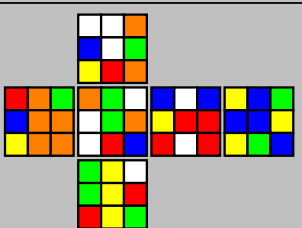
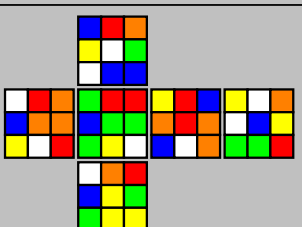
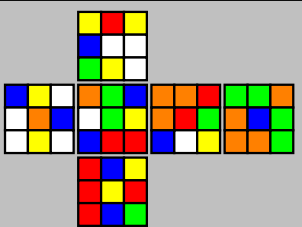
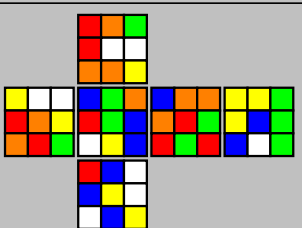
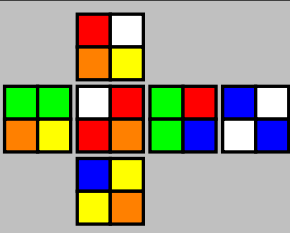
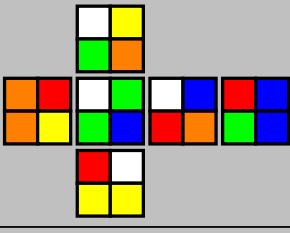
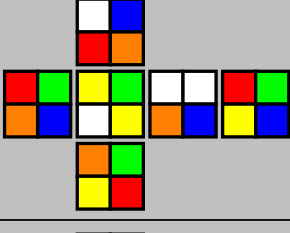
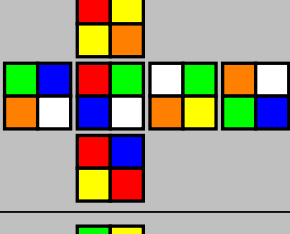
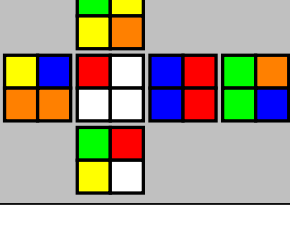
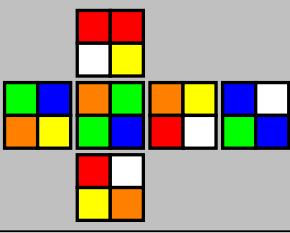
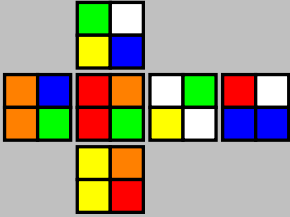


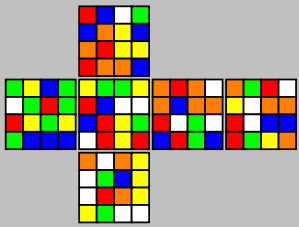
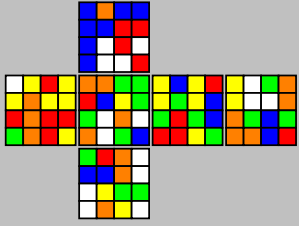
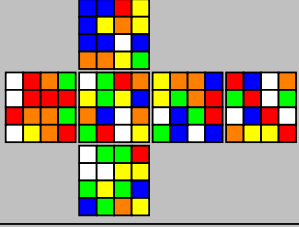
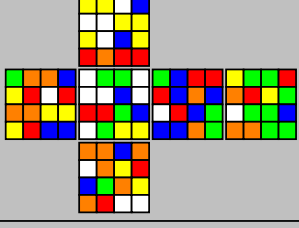
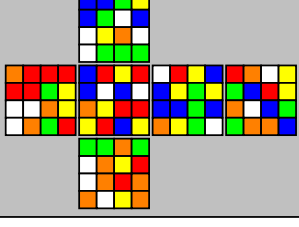
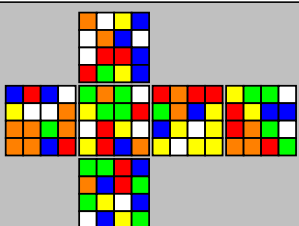
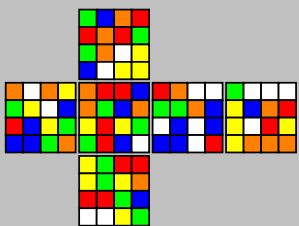
1.	F2 R' D2 L2 D2 R' B2 L' U' L' R' B' L' R D R2 B2 F' L	
2.	L2 R2 D2 R2 D' B2 L2 U' F' L B2 R U' B' R' U2 B' L R	
3.	R2 B2 R2 D R2 U' F2 R2 F2 U F R2 B' L2 B U B L U2	
4.	L' D2 R' D' F' D2 R L D L' U F2 D L2 D2 L2 U' L2	
5.	L2 B2 F2 R F2 D2 B2 F2 D' R D' F' L B U2 F' R B	
Extra scrambles		
E1.	B2 D'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

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

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# 4x4x4 Cube Round 1

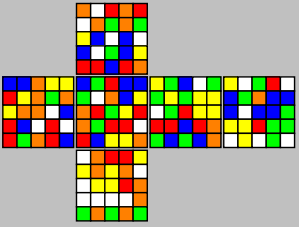
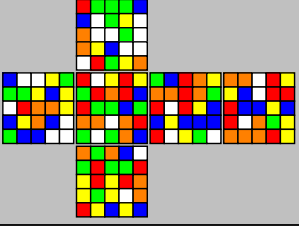
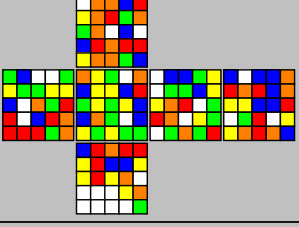
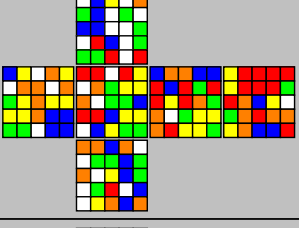
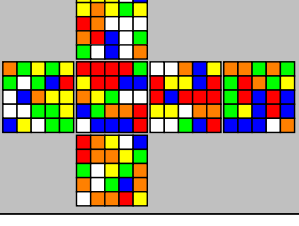
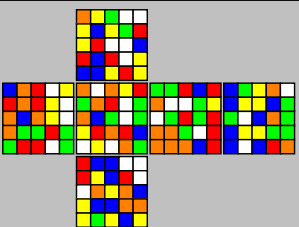
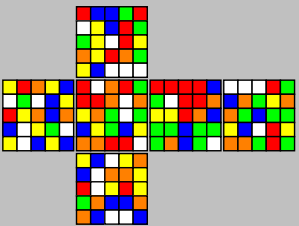
## NU\_CUBING\_11-15-2015

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

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# 5x5x5 Cube Round 1

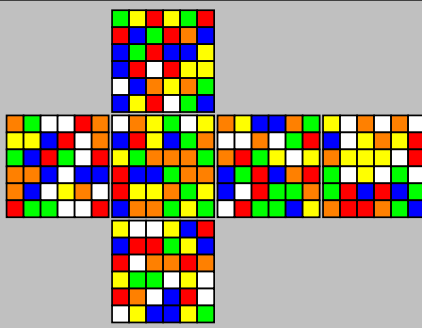
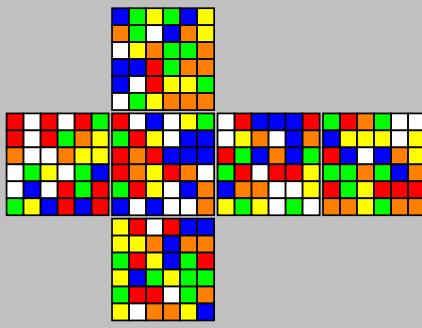
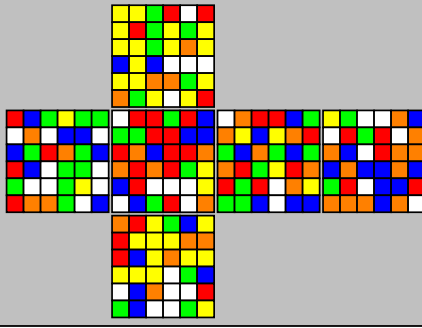
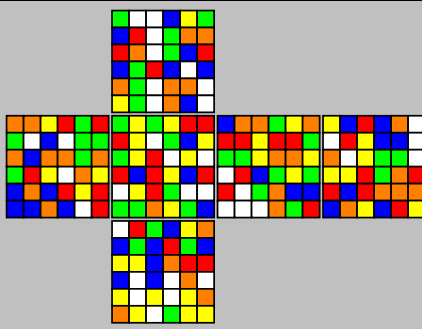
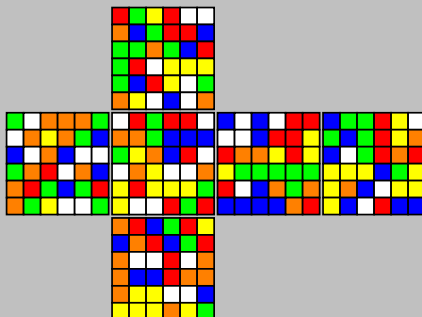
## NU\_CUBING\_11-15-2015

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

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# 6x6x6 Cube Round 1

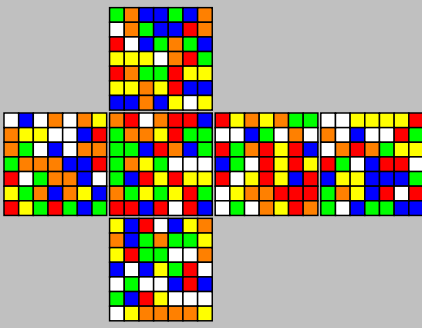
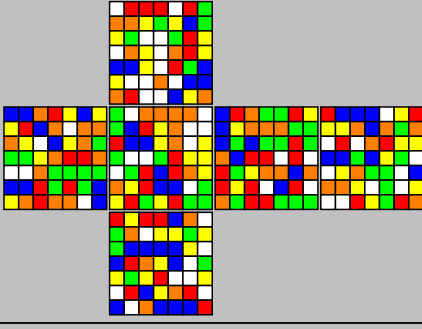
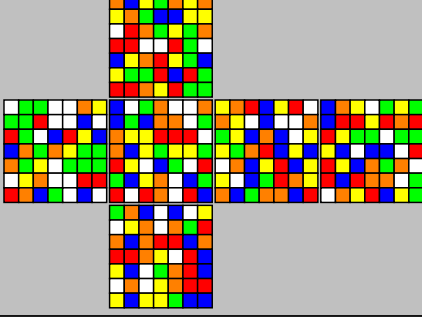
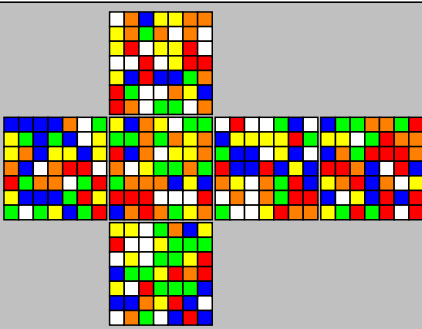
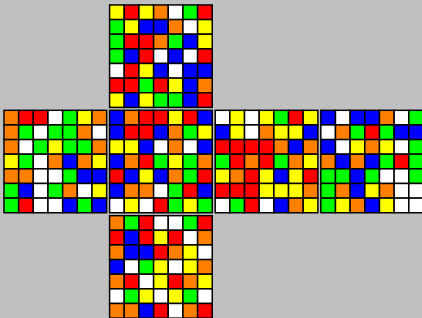
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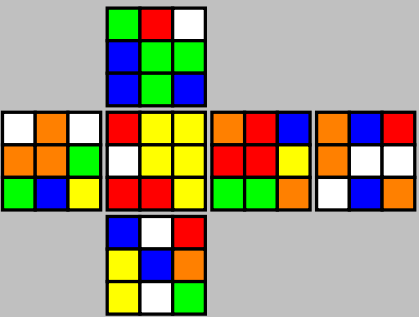
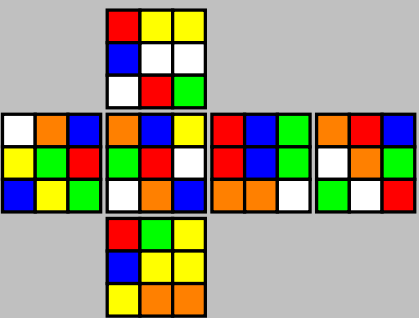
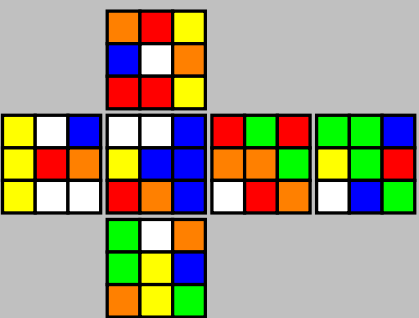
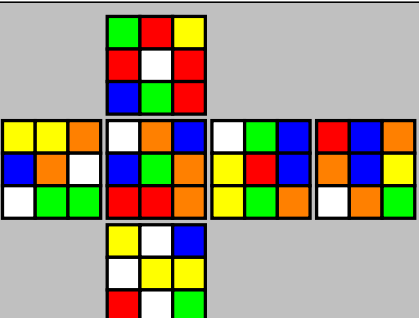
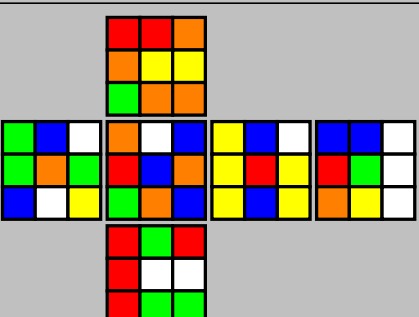
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	B	Lw	Fw'	B2	F2	Dw'	Uw'	F2	Bw	
	L2	3Rw2	B2	R'	Bw	Uw2	B2	Lw'	3Uw'	
	D2	Dw	B	R'	F2	Dw	3Rw2	U2	Bw'	
	U	Bw2	Dw2	D'	U2	R'	D'	Bw	R	
	3Fw'	U	3Uw'	F2	U2	Rw	3Fw'	Lw	3Rw'	
	3Uw'	3Fw'	3Uw	Rw2	F	Bw2	U'	L2	B	
	Rw'	F'	3Rw'	3Uw'	Fw	3Fw'	Dw	Uw2	3Uw'	
	R	Rw	D'	Bw	Lw2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

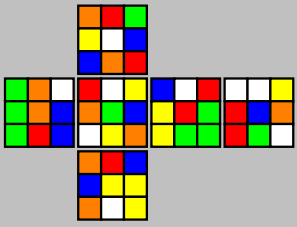
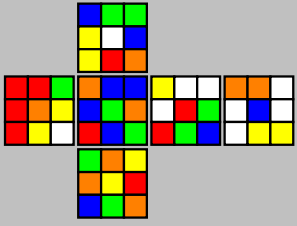
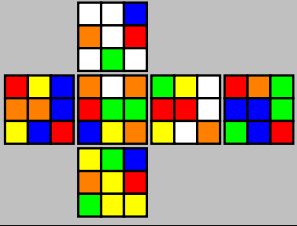
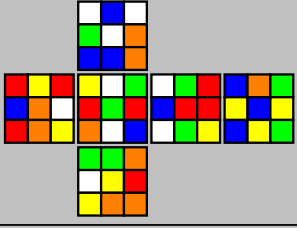
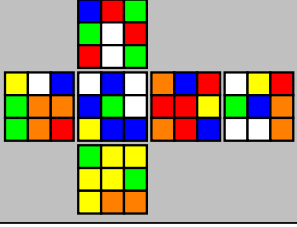
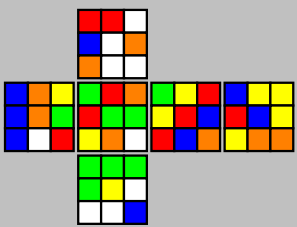
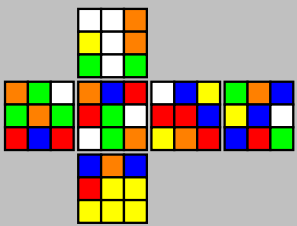
2015/08/07

# 7x7x7 Cube Round 1

## NU\_CUBING\_11-15-2015

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

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

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







NU\_CUBING\_11-15-2015  
3x3x3: Fewest Moves Round 1  
Scramble 3 of 3

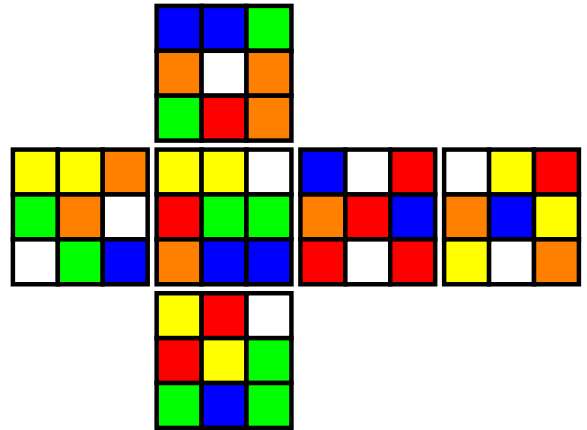
- Notate your solution by writing one move per bar.
  - To delete moves, clearly erase/blacken them.
  - Face moves F, B, R, L, U, and D are clockwise.
  - Rotations x, y, and z follow R, U, and F.
  - ' inverts a move; 2 doubles a move. (e.g.: U', U2)
  - w makes a face move into two layers. (e.g.: 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.

Competitor: \_\_\_\_\_

WCA ID: \_ \_ \_ \_ \_

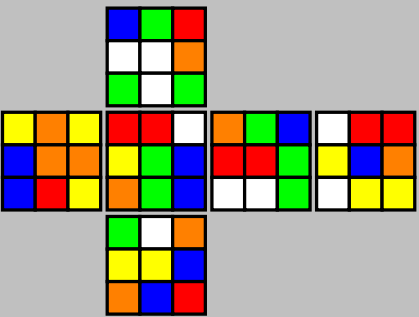
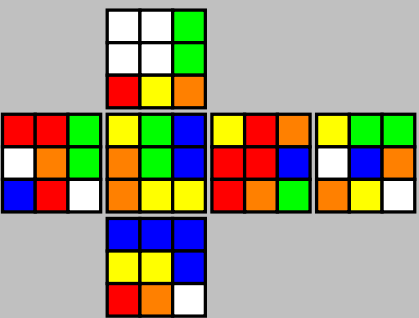
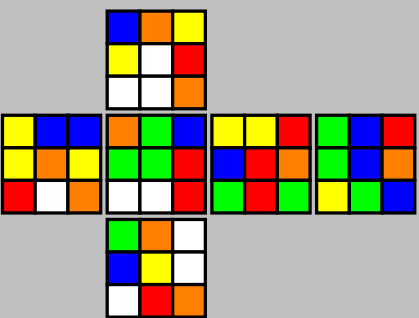
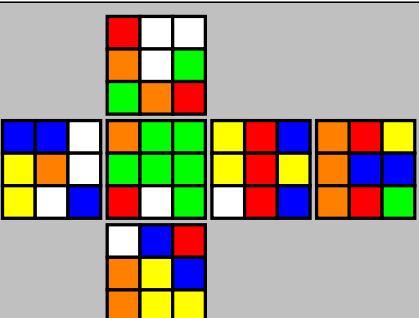
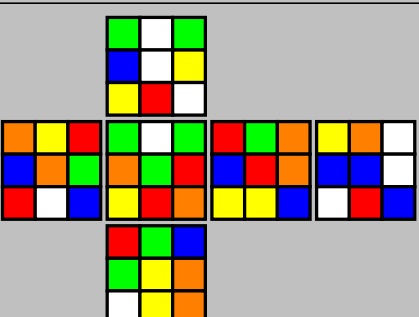
DO NOT FILL IF YOU ARE THE COMPETITOR

Graded by: \_\_\_\_\_ Result: \_\_\_\_\_



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

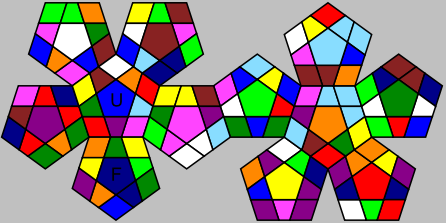
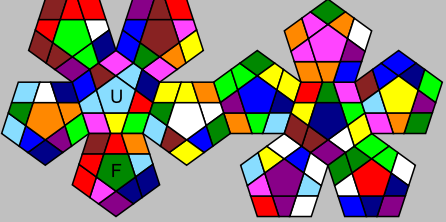
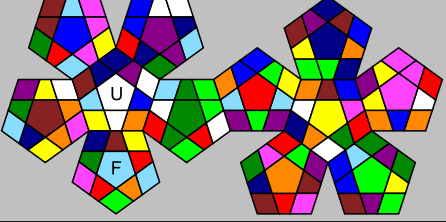
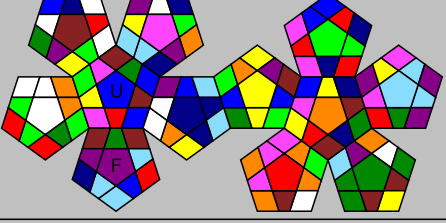
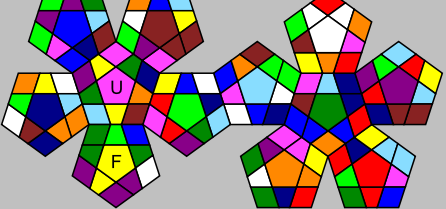
[illegible]

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

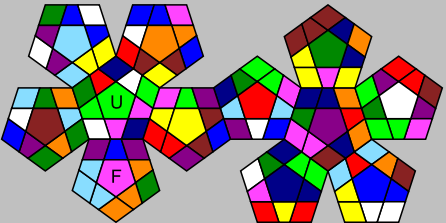
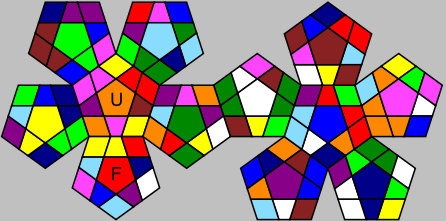
2015/08/07

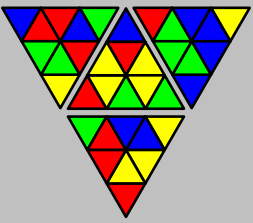
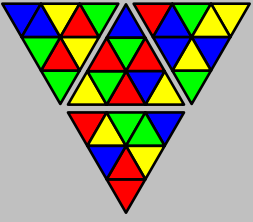
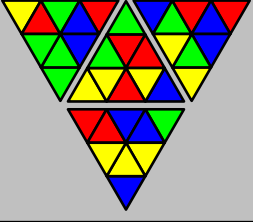
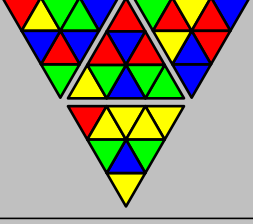
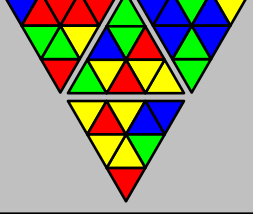
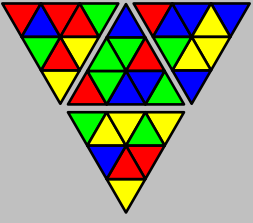
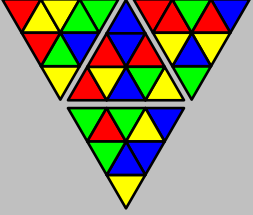
# Megaminx Round 1

## NU\_CUBING\_11-15-2015

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	

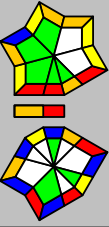
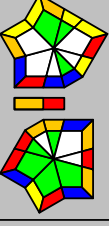


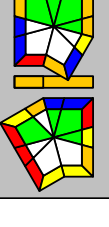
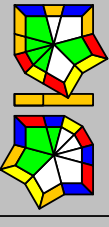
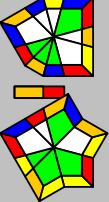
### Extra scrambles

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

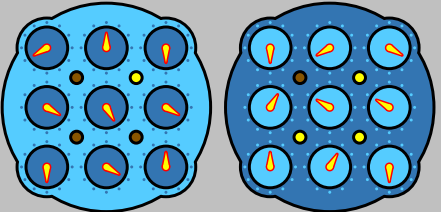
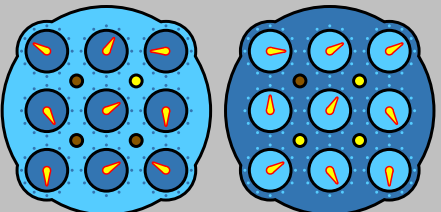
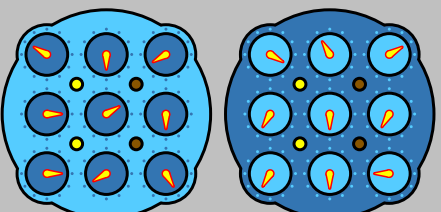
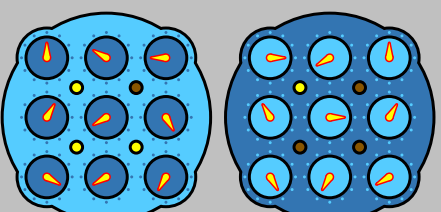
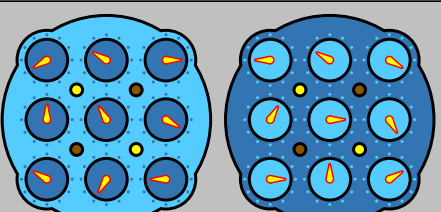
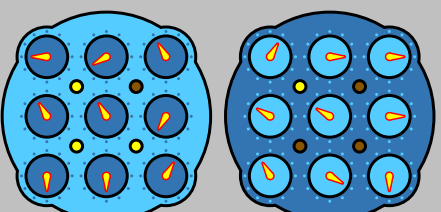
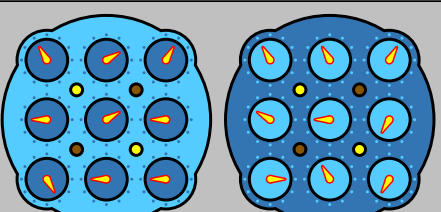
2015/08/07

Square-1 Round 1  
 NU\_CUBING\_11-15-2015

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

2015/08/07

Rubik's Clock Round 1  
NU\_CUBING\_11-15-2015

1.	UR1- DR6+ DL5- UL4- U2+ R4+ D1+ L3- ALL2- y2 U1+ R1+ D5+ L1+ ALL3- UR	
2.	UR4+ DR5- DL0+ UL2+ U2+ R2+ D4+ L6+ ALL2- y2 U0+ R3- D1+ L4- ALL4- UR	
3.	UR0+ DR2+ DL3- UL1- U1+ R3- D4- L3+ ALL1- y2 U6+ R1- D4- L4- ALL5+ DL UL	
4.	UR5- DR6+ DL3- UL4+ U3- R3+ D4+ L1+ ALL4- y2 U0+ R5- D2- L3+ ALL0+ DR DL UL	
5.	UR5+ DR4+ DL3+ UL4- U2+ R5+ D2- L1- ALL3+ y2 U4+ R1- D1+ L5- ALL0+ DR UL	
Extra scrambles		
E1.	UR3- DR2+ DL3+ UL3+ U6+ R1+ D2+ L1+ ALL5- y2 U5+ R0+ D3+ L4+ ALL1- DR DL UL	
E2.	UR5- DR4- DL1+ UL2+ U1+ R4- D1+ L1- ALL6+ y2 U5+ R5+ D0+ L5+ ALL1- DR UL	



2015/08/07

4x4x4 Cube: Blindfolded Round 1  
 NU\_CUBING\_11-15-2015

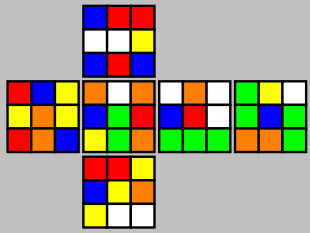
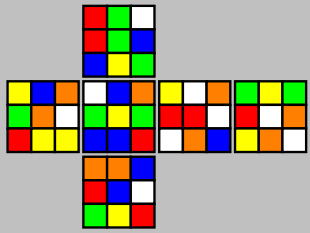
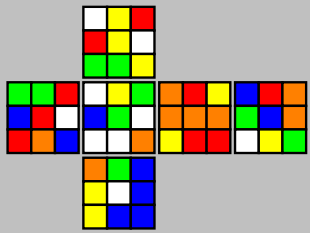
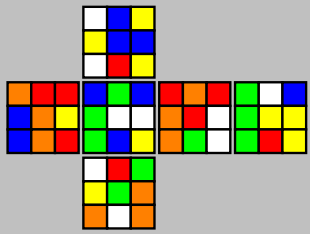
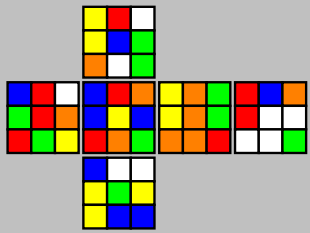
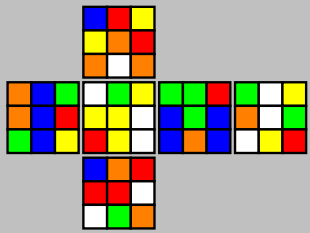
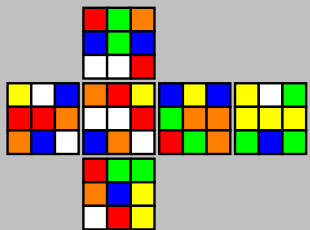
1.	U	R'	B2	D2	R	D'	R2	F'
	B'	U'	D2	L	B2	R'	F2	U2
	L	D2	F2	R2	Uw2	L	U2	Fw2
	Rw2	L'	F'	B2	Uw2	B	Uw2	R
	L'	Uw	B	L2	F2	Rw2	F'	Fw
	D	Fw'	Rw'	F'	z'	y2		
2.	D	L2	D2	B2	D'	F2	L2	D2
	F'	D	U2	F2	R'	B'	D	B'
	F'	D	F'	Fw2	Rw2	B'	D'	Fw2
	B2	F	R2	U'	Rw2	D'	R2	B2
	Rw'	Fw2	B2	L'	R'	F'	Rw2	Uw
	F	Uw	Fw	Rw2	x	y2		
3.	R	D'	L	U	B	R2	B	L
	U	F	B2	U2	B2	L	D2	B2
	R	D2	L2	Uw2	Rw2	F'	R	Fw2
	L'	Fw2	Uw2	D2	Rw2	U2	R'	Fw2
	D'	Fw2	Uw'	B	L2	Rw	B2	Uw
	Fw2	U	F2	D'	B	x'	y2	
Extra scrambles								
E1.	R2	D2	B2	L2	B2	L2	U2	F'
	B2	L	F'	U'	D'	B	R'	U2
	B2	L2	U2	Fw2	L'	D2	L'	Uw2
	B	L	Fw2	Rw2	L'	Fw2	D2	R
	Uw	U	B'	L2	Uw2	L'	Rw'	B'
	Uw'	R'	Fw	Uw'	F	x2	y	
E2.	U'	R2	U	B	R	U'	D	L'
	U2	F	R2	F2	L'	D2	F2	R2
	U2	B2	L'	D2	Rw2	U2	Fw2	D'
	L	Fw2	R'	F2	U	F2	L'	D'
	Fw	L'	F2	D	Rw2	Fw	Uw	F2
	D2	Fw2	F'	Rw'	B'	x2	y'	

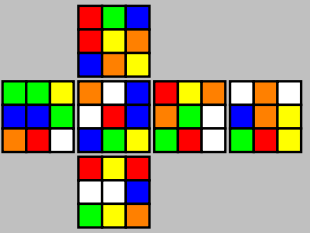
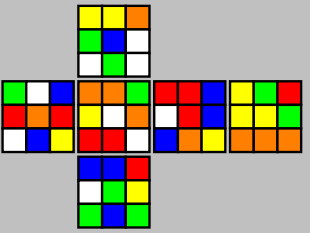
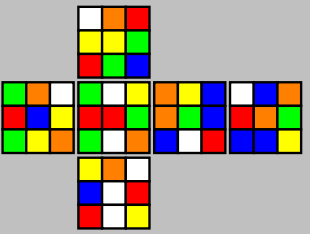
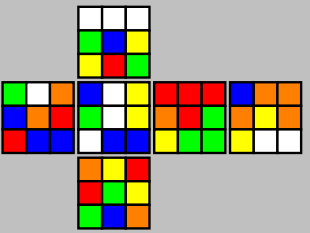
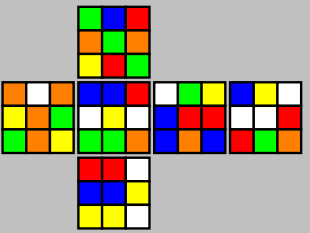
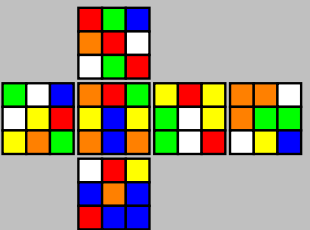
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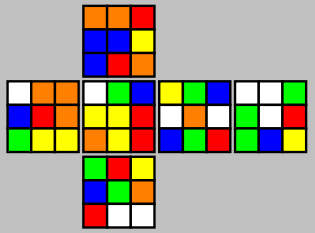
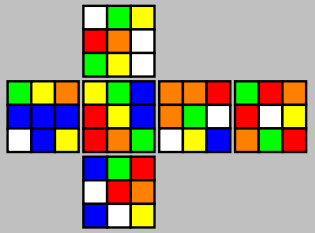
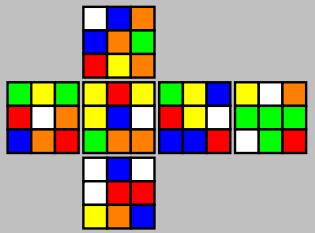
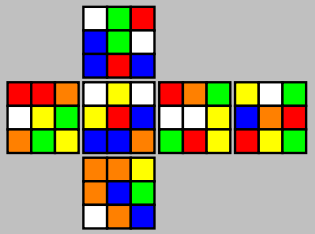
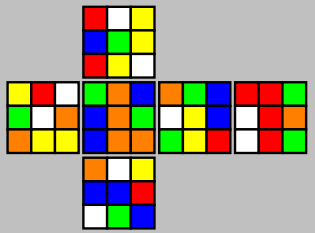
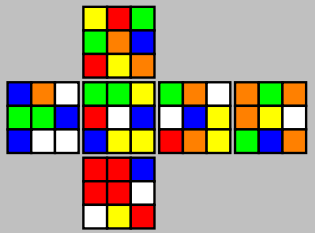
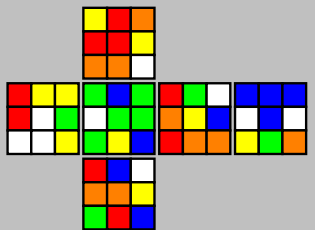
# 5x5x5 Cube: Blindfolded Round 1

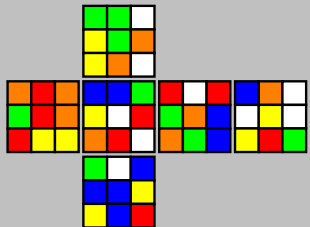
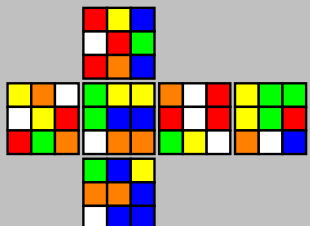
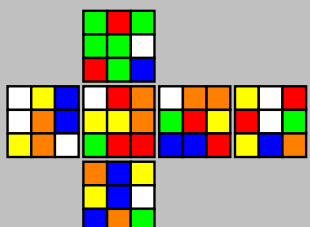
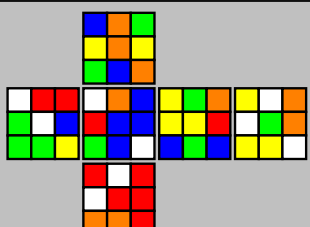
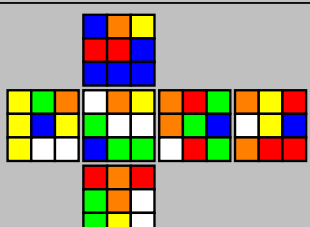
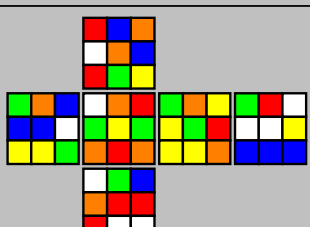
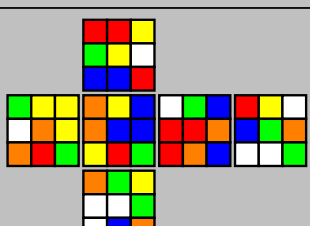
## NU\_CUBING\_11-15-2015

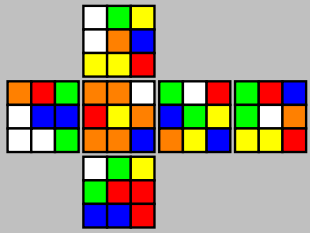
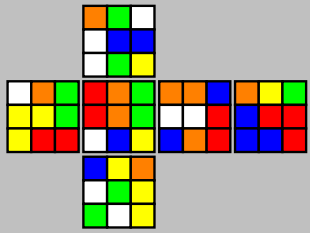
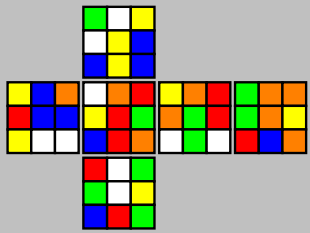
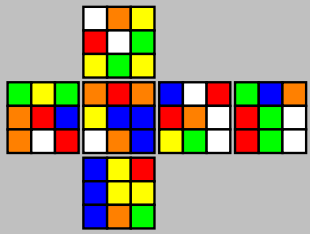
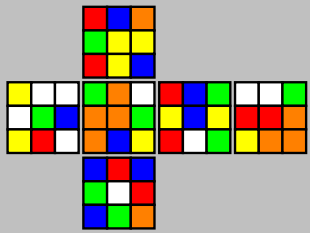
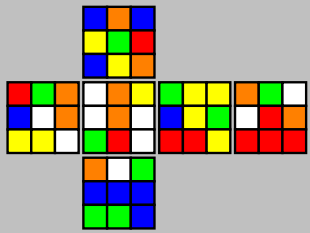
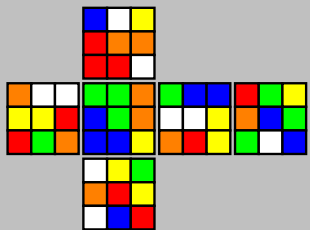
1.	Rw'	R'	B2	Uw'	F2	Rw	Lw2	B2
	Dw'	L	Fw2	B2	R2	L2	Fw	Dw2
	U2	D'	Uw2	L2	U	Uw2	R2	U2
	Uw2	Rw	B	R	Bw'	Fw'	B	L2
	U2	R'	L2	Uw2	Bw'	Dw'	F2	D
	Rw	F'	Uw2	Bw2	R	Rw2	B'	Uw'
	Bw2	R'	B	D	Fw'	U	R2	Lw
	D'	Dw	Bw2	D'	3Fw	3Uw'		
2.	Dw2	Lw'	B2	D'	R'	L2	Uw	Bw'
	D'	L	Rw	D'	Fw'	B	Lw2	Fw
	Bw	D'	Dw'	Lw2	B	Bw2	Uw2	Lw2
	U	F'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

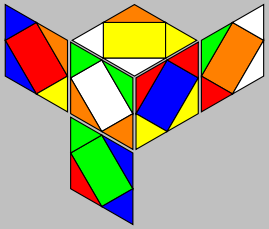
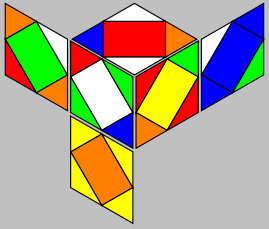
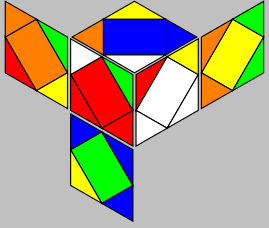
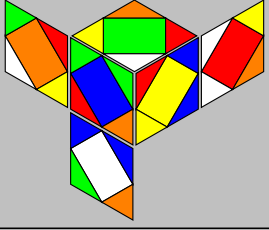
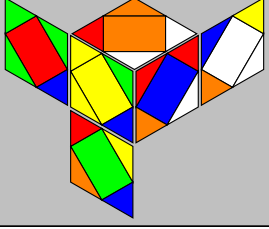
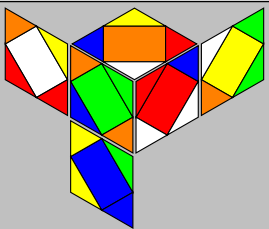
1.	U2 L D2 R' D2 B2 F2 U2 R' B L D2 L D L F2 L F	
2.	R2 F2 D2 B' L2 B L2 D2 F L2 D2 L' F' R D' B' D2 L R2 D' Rw	
3.	F2 R2 D F2 D F2 L2 U L B2 U R D' B L' D' L' D' L2 F Rw2 Uw2	
4.	B2 R2 B2 U' B2 R2 U R F' D2 L' U L B2 U F2 D2 R' U Rw'	
5.	L' B2 L' D2 R U2 R U2 B2 U F2 U2 F' L2 R' U2 B' R F2 Rw' Uw2	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

8.	B L2 B D2 U2 F' R2 B2 F' R U2 B2 F' U R2 D B L' F2 D' Rw2 Uw	
9.	B' D2 R2 B U2 L2 B2 F2 U' F' L2 B L R2 D B2 D2 R F2 U2 Rw'	
10.	U R2 D' L2 B2 U' R2 U2 F2 U R2 F' R2 B L D' B2 F2 U' R2 U Fw' Uw2	
11.	U' R2 B2 F2 D2 U L2 U' F' L B' R' B2 D' L' D R' U' R' D2 Rw2 Uw	
12.	B2 U' R2 B2 F2 R2 U' F U2 F' U' B' L2 F R' U2 L D' F' Rw'	
13.	U L2 R2 D' R2 B2 F2 L' B' L2 D B U' L' B2 R' D2 R' F2 Rw	
14.	L2 B2 R2 B2 D2 R2 U' B2 F' U F' U2 L2 F' L U' F R' D' U' Fw' Uw2	

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

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

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

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