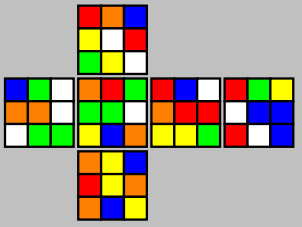
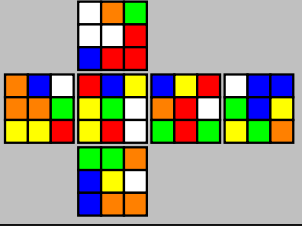
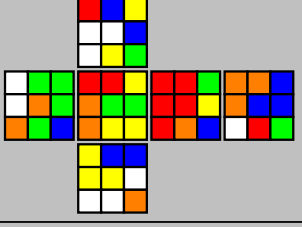
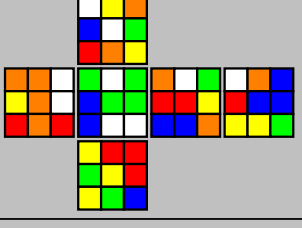
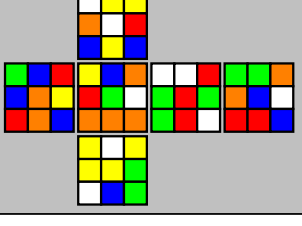
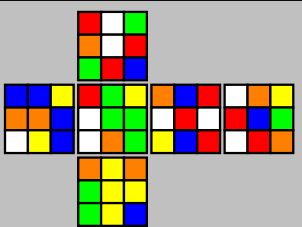
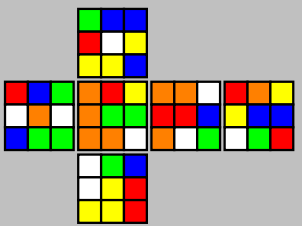
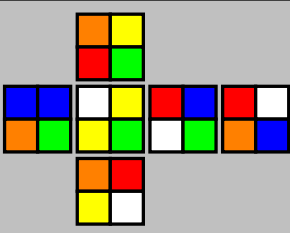
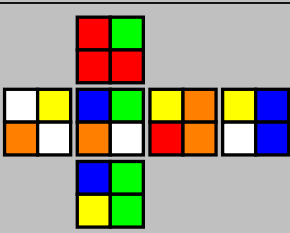
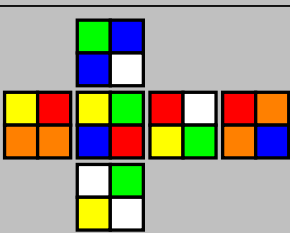
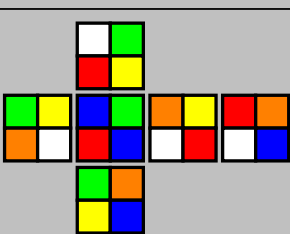
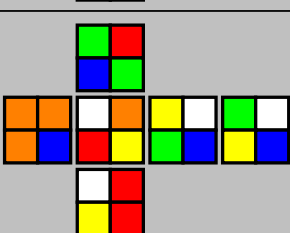
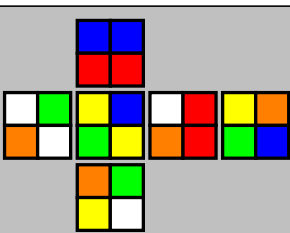
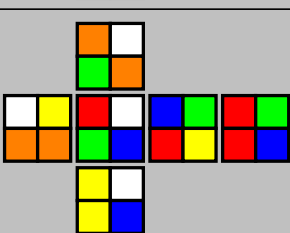


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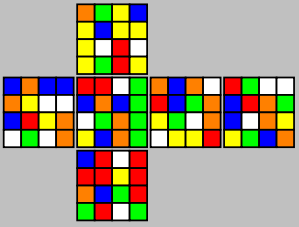
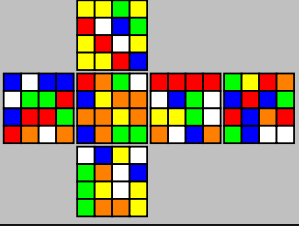
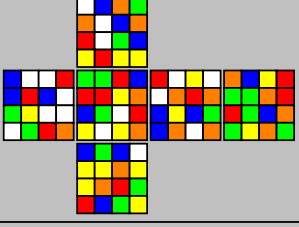
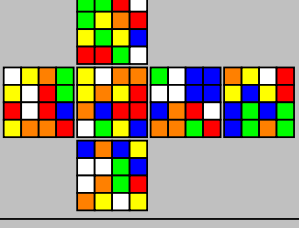
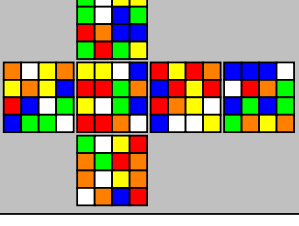
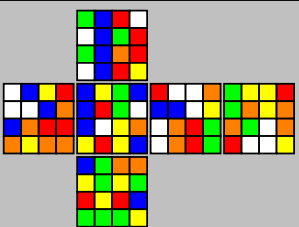
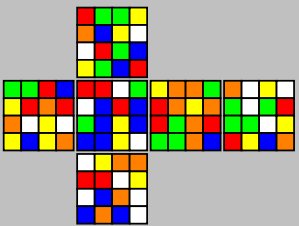
3x3x3 Cube Round 1
NU_CUBING_11-01-2015

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

1.	$U' R F' R^2 U R' F^2 R U' R' F$	
2.	$R' F' U F U^2 F' R U' R U' R'$	
3.	$U' R' F R' U^2 F U^2 R^2 U^2 R' U^2$	
4.	$R' F R U R U' F' U' R^2 U F^2$	
5.	$U' R^2 U^2 R' U R F^2 R U^2 R' U'$	
Extra scrambles		
E1.	$U' R' F' U^2 R U R' F' R F' U$	
E2.	$R' U' R U^2 R F' U' F R U R$	

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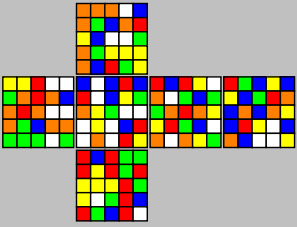
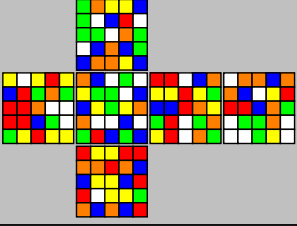
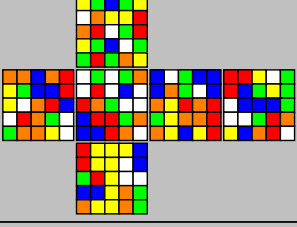
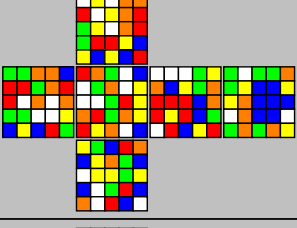
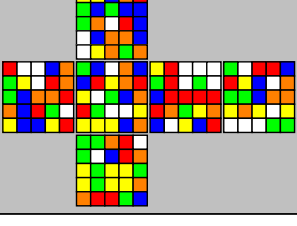
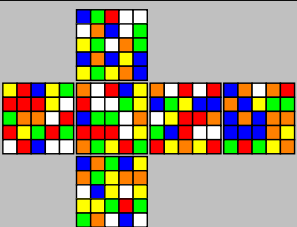
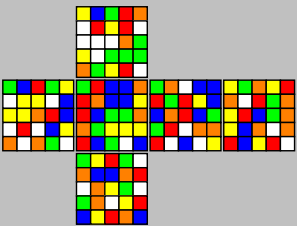
4x4x4 Cube Round 1
NU_CUBING_11-01-2015

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

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5x5x5 Cube Round 1

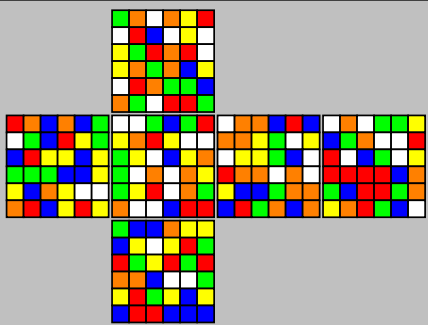
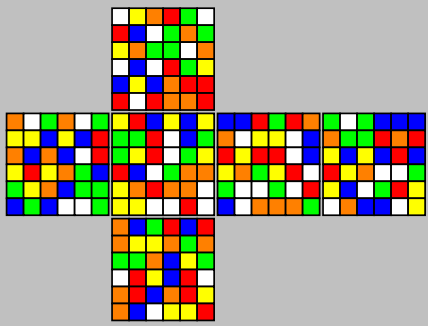
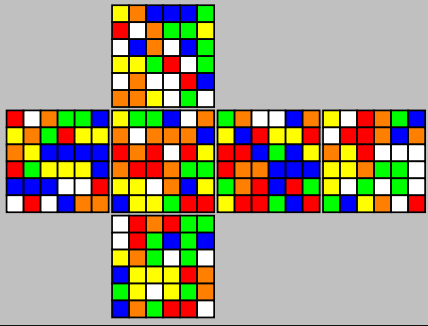
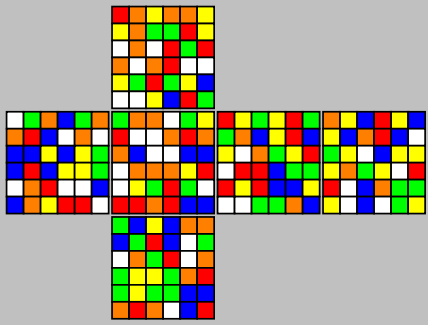
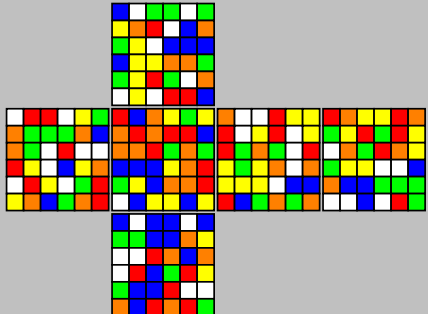
NU_CUBING_11-01-2015

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

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6x6x6 Cube Round 1

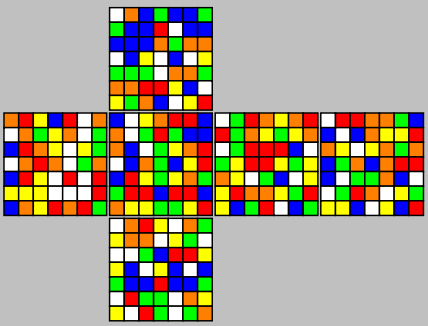
NU_CUBING_11-01-2015

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

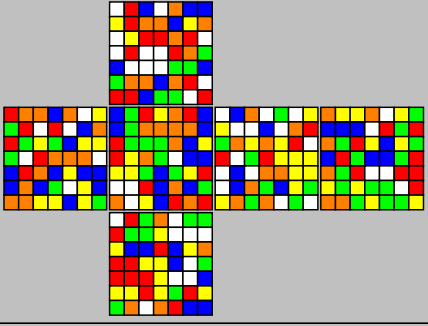
2015/08/07

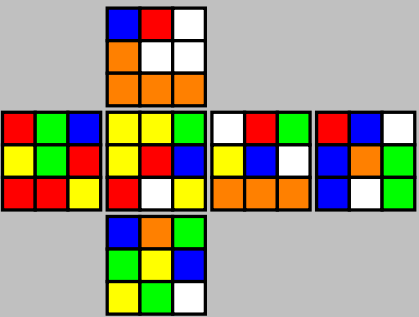
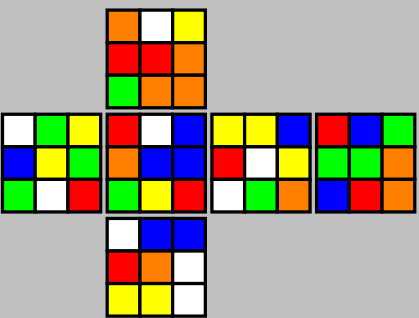
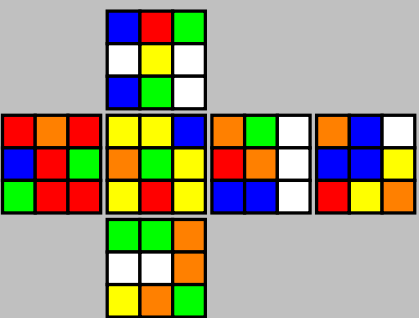
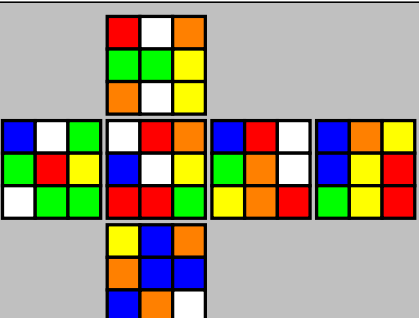
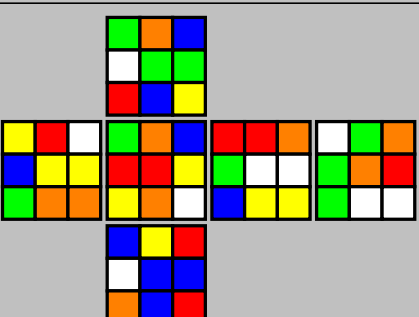
7x7x7 Cube Round 1

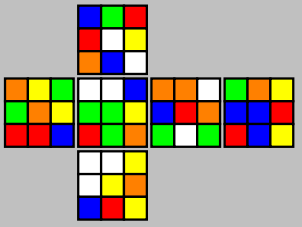
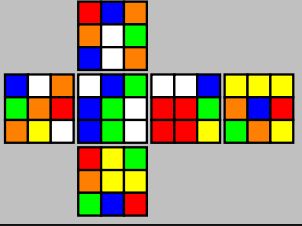
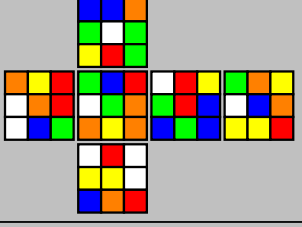
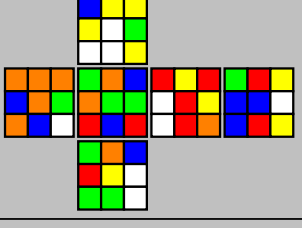
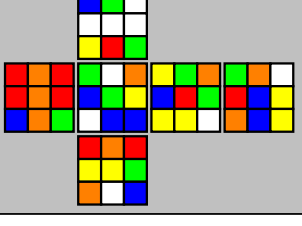
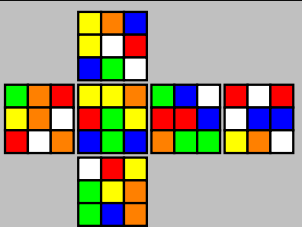
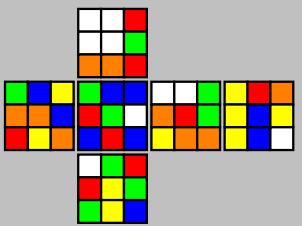
NU_CUBING_11-01-2015

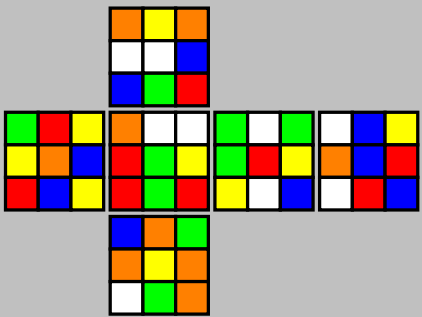
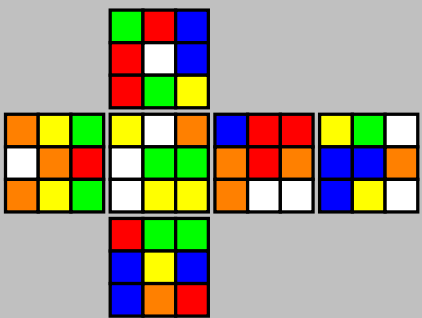
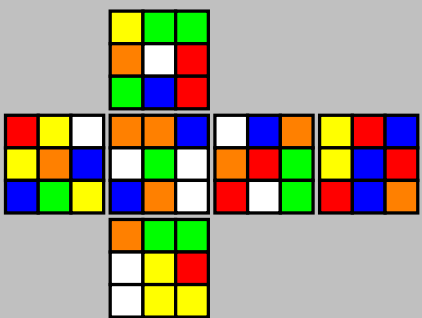
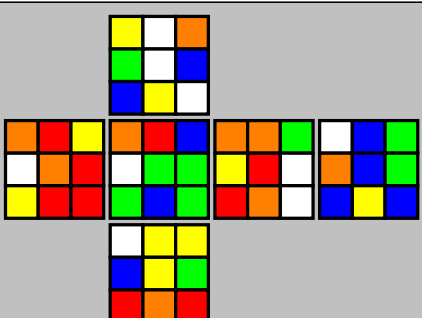
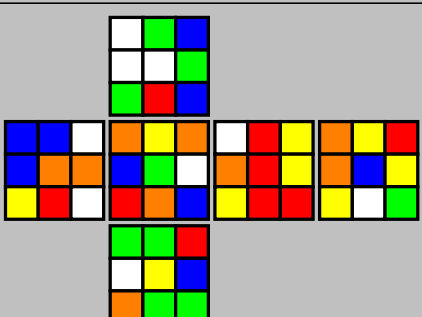
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	R2 Bw2 3Rw' 3Dw2 3Lw 3Dw Fw U2 Rw' 3Rw B L Dw' L U2 Dw2 3Fw F' Fw' 3Uw' 3Bw Uw' L2 B2 3Fw' Fw' 3Dw' Rw R' Lw2 3Bw B R Uw' 3Dw' Bw2 3Bw2 U' 3Lw Lw2 Rw' R2 3Fw' 3Uw' Bw' 3Uw2 3Fw' D Fw U Lw' 3Dw2 3Bw2 R 3Uw2 Uw2 Rw Lw' Dw2 U R2 Lw 3Dw2 B2 F' Lw' Bw2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

Extra scrambles

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

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

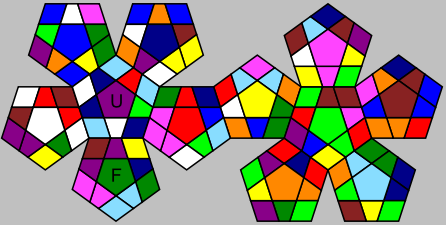
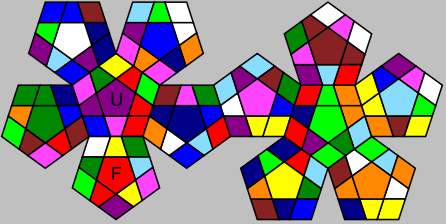
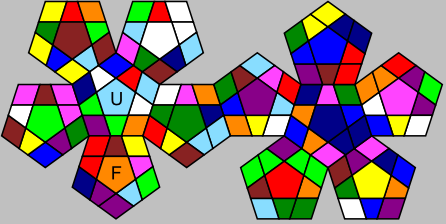
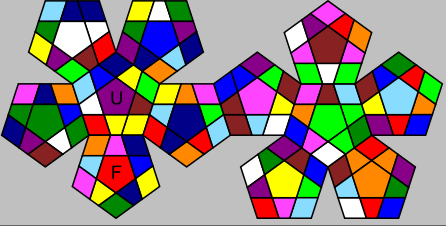
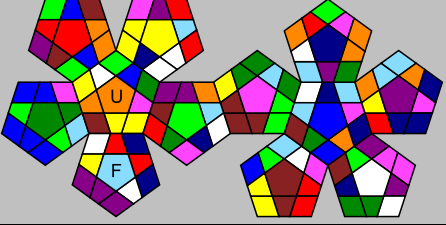
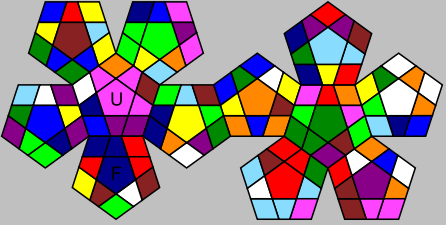
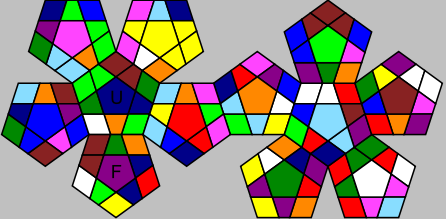
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2.	R2 B' F' U2 F R2 F L2 R U' L2 D F' U2 R U2 L R U	
3.	U F2 U F2 U2 B2 F2 L' R D U F L U2 L2 B U' B	
4.	F2 R2 D2 F U2 F D2 B F D2 U' L2 F2 R F2 U' B2 U' L' R2	
5.	U L2 D2 U L2 B2 R2 F2 D2 L' B2 R U' L2 D2 F' L D R'	
Extra scrambles		
E1.	U2 R' B2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

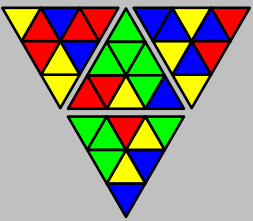
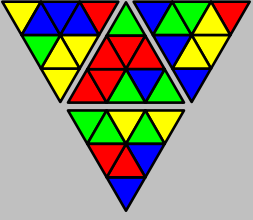
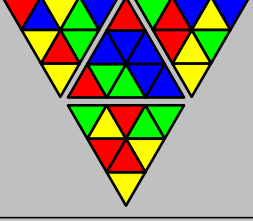
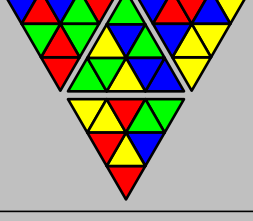
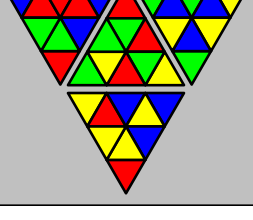
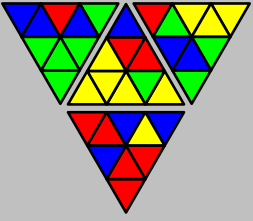
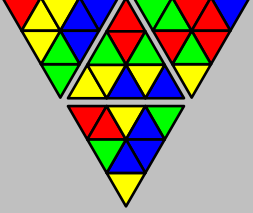
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2.	R2 U' R2 B2 R2 U2 B2 R2 D B R2 F R' D' L B D B2 D2 F	
3.	F2 D2 B2 L2 D2 F2 U F2 U L2 D2 R U B' L' R2 D2 F2 U L'	
Extra scrambles		
E1.	L U2 R2 U2 L2 U2 R' F' D2 F' D B D' U2 R2 F' R F2	
E2.	L2 U D R' D' L' F2 D B' L B2 U R2 F2 L2 F2 L2 U' R2 U'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

2015/08/07

Megaminx Round 1

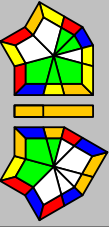
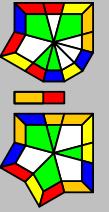
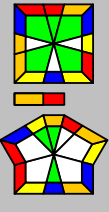
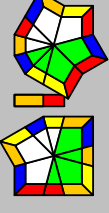



NU_CUBING_11-01-2015

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

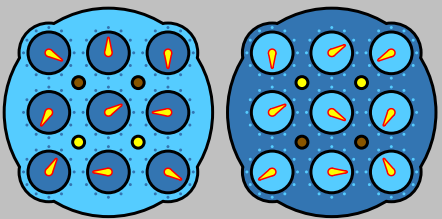
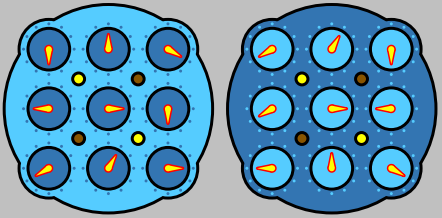
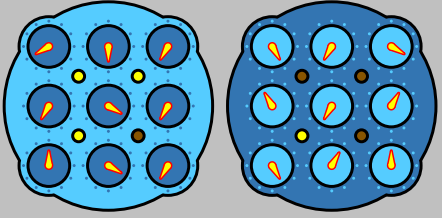
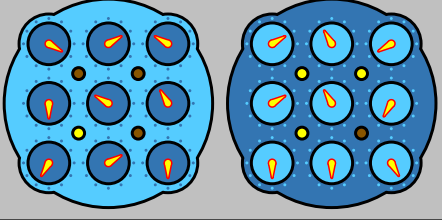
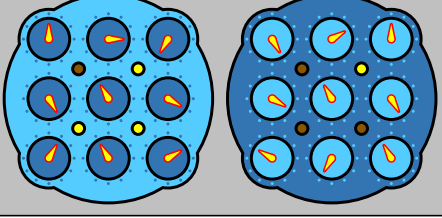
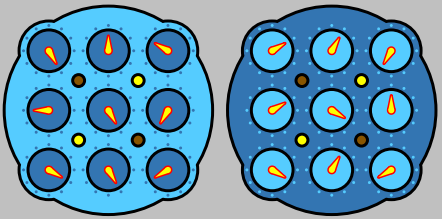
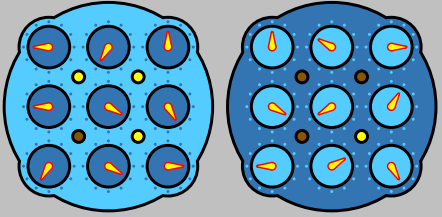
2015/08/07

Square-1 Round 1
NU_CUBING_11-01-2015

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

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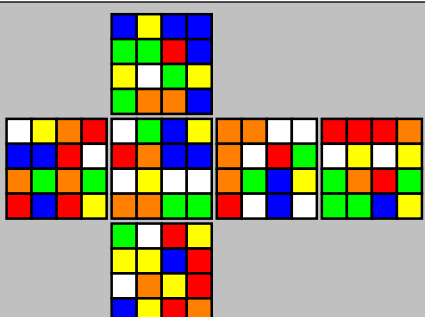
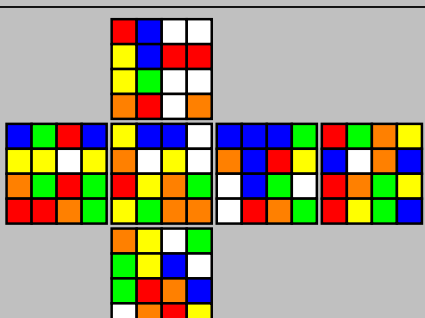
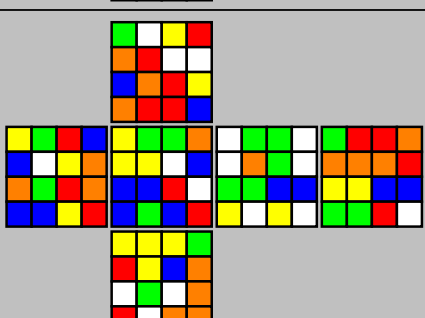
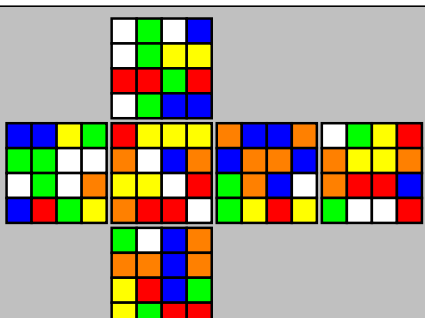
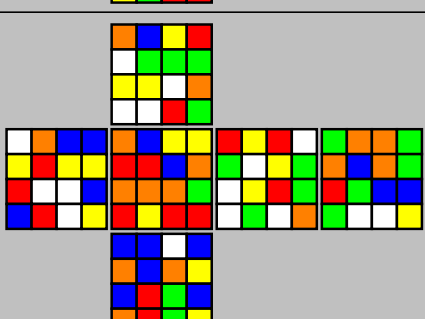
Rubik's Clock Round 1
NU_CUBING_11-01-2015

1.	UR1- DR1+ DL4- UL5- U5- R2+ D5+ L6+ ALL5+ y2 U5+ R5- D2+ L5+ ALL5- DR DL	
2.	UR4- DR5+ DL5+ UL5+ U2+ R6+ D4+ L4- ALL4- y2 U2+ R6+ D3+ L3- ALL5- DR UL	
3.	UR5- DR3+ DL0+ UL0+ U1- R2- D3- L6+ ALL3- y2 U0+ R3- D2- L3- ALL0+ UR DL UL	
4.	UR0+ DR3+ DL1- UL1+ U4+ R6+ D2- L4+ ALL4- y2 U4- R4+ D4- L1- ALL3+ DL	
5.	UR2+ DR6+ DL1+ UL3+ U1- R1- D2+ L2+ ALL3- y2 U0+ R6+ D4- L5- ALL2+ UR DR DL	
Extra scrambles		
E1.	UR0+ DR5+ DL2+ UL4- U5- R3- D4- L6+ ALL5- y2 U0+ R4- D5+ L2- ALL6+ UR DL	
E2.	UR4+ DR2+ DL0+ UL5- U5- R2- D4- L0+ ALL6+ y2 U0+ R5- D3- L1- ALL1+ UR DR UL	

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4x4x4 Cube: Blindfolded Round 1

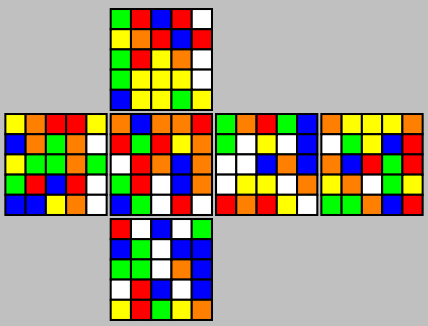
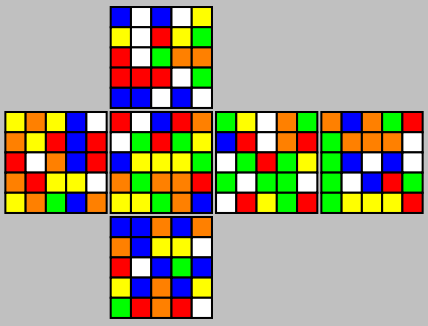
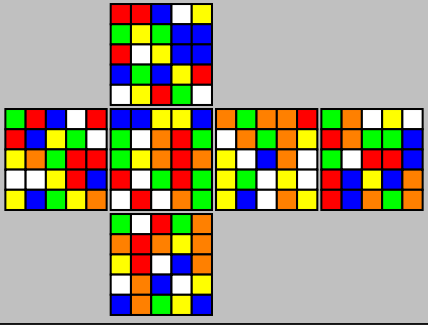
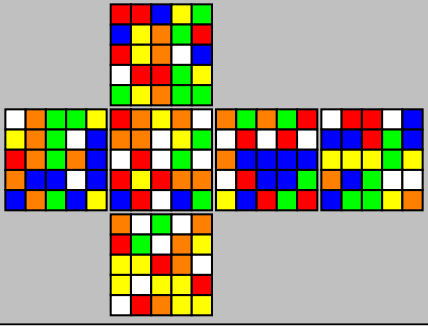
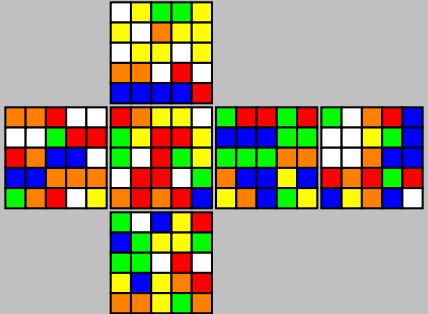
NU_CUBING_11-01-2015

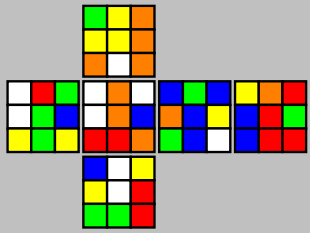
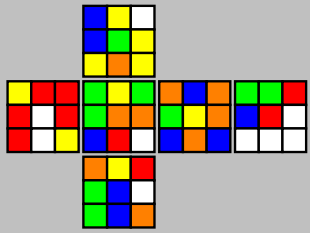
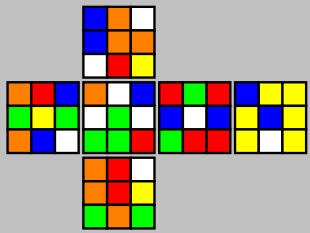
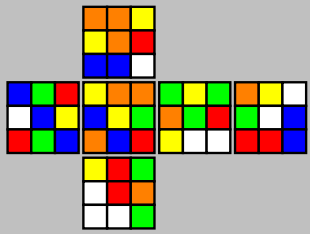
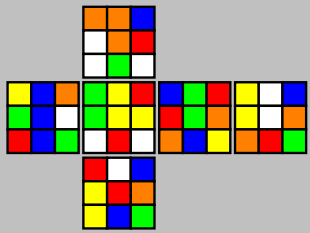
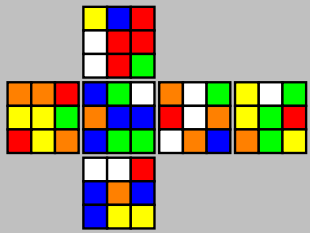
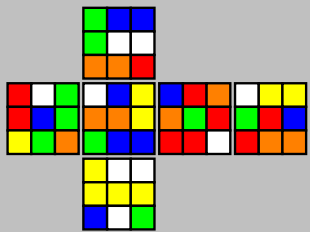
1.	L2	U2	D'	R2	D'	F2	U2	B2	
	D'	R	F2	U'	F'	L	F'	L	
	B	L	U'	B'	Rw2	F'	R2	Uw2	
	D	R2	U	Fw2	F'	D2	B'	Uw2	
	F'	R'	B2	Rw'	Uw2	L	Fw'	R2	
	Uw	F2	L'	Fw	Uw	F2	z	y2	
2.	U	F'	B2	D	R2	F'	B'	R'	
	F'	L	D2	F'	B2	D2	L2	U2	
	R2	B	Rw2	D'	Fw2	R	Uw2	U'	
	Fw2	U2	L	B2	U'	D	L'	Fw	
	L	D'	R'	D'	Fw2	Rw	B'	Uw	
	U	D'	Rw2	B	z'	y2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

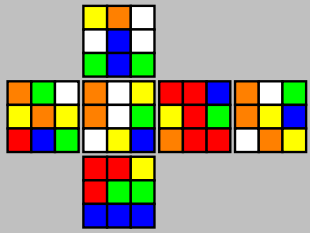
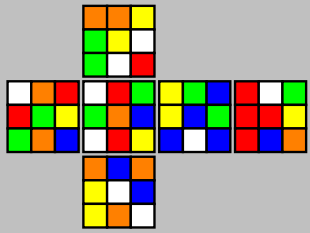
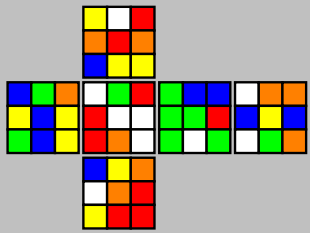
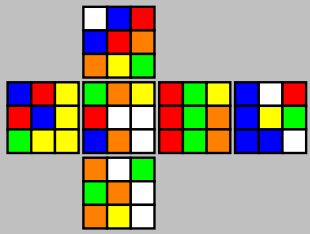
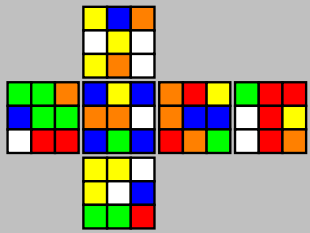
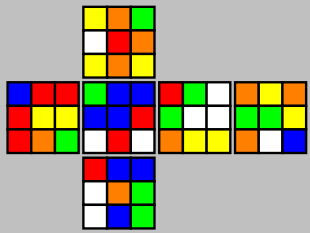
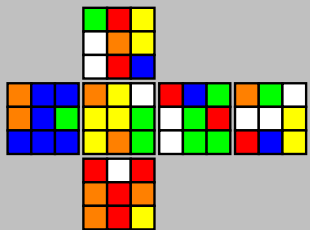
2015/08/07

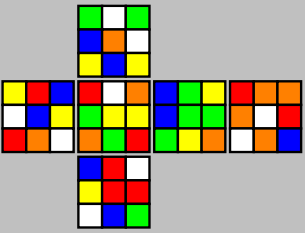
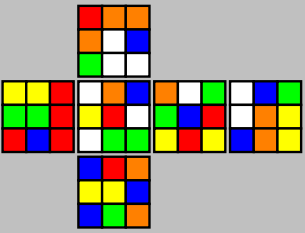
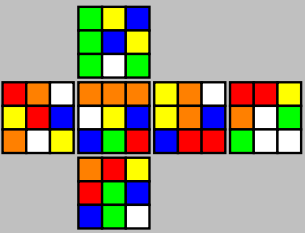
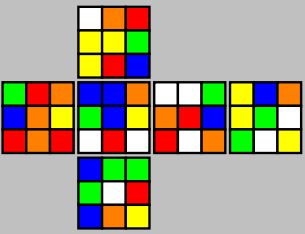
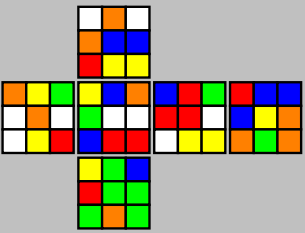
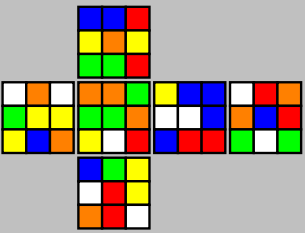
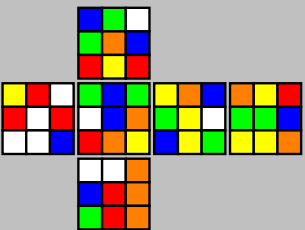
5x5x5 Cube: Blindfolded Round 1

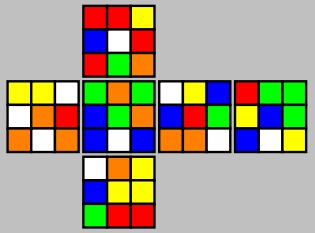
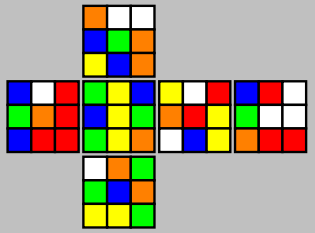
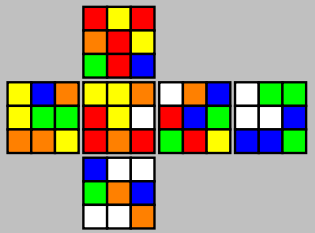
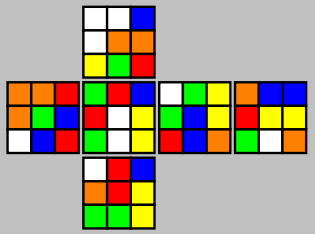
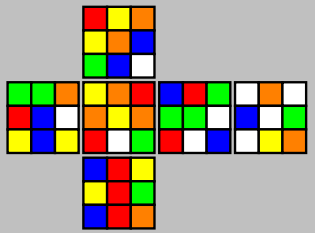
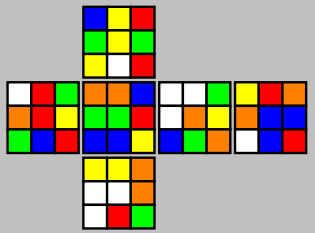
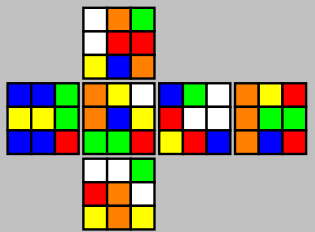
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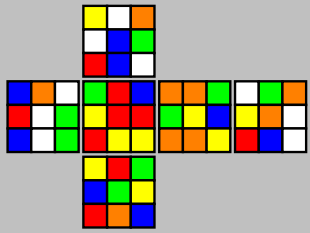
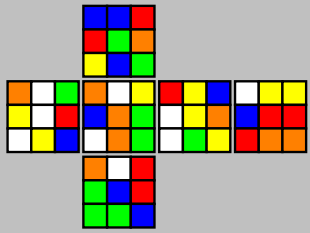
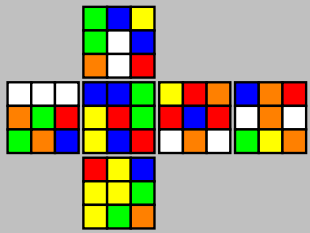
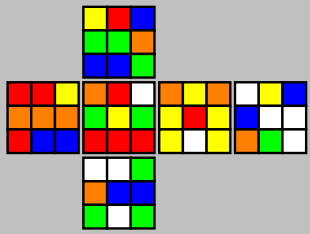
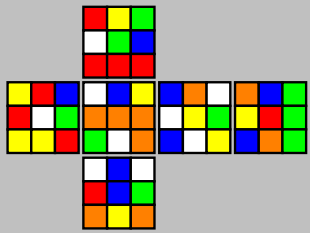
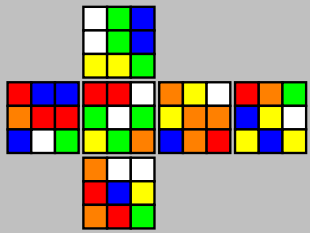
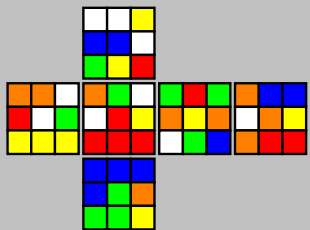
1.	D2 Fw D' Bw Dw D' Uw2 Bw2 F' Dw' U Rw2 Bw Rw Uw' F' Dw2 R F2 Bw2 Uw B L Fw2 Uw2 Fw2 F D2 Uw2 Rw' Lw' U' Rw' L2 Fw' Dw' D' F' Dw' R' L' F' Bw Rw Lw B' L Uw Lw' U2 Uw L2 Rw2 Dw Lw2 L2 R U2 R Rw2 3Rw2 3Uw'	
	L R Uw F2 Uw2 Dw2 F' Bw' U2 Uw' F2 Bw2 L Rw' B' U2 D' Uw B Rw2 Fw' Rw2 F B2 Lw' R Uw' Rw B Uw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

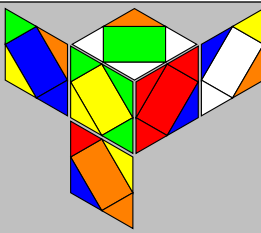
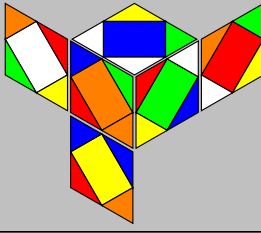
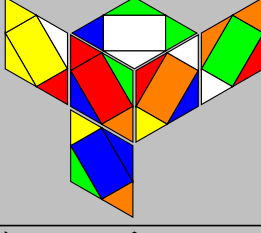
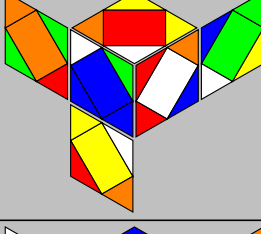
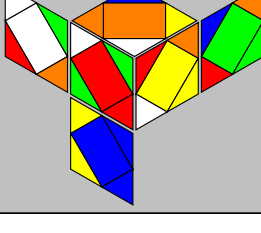
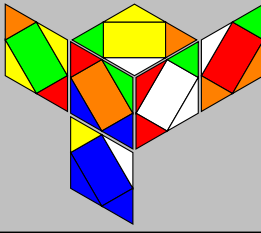
1.	R2 D2 U2 R' F2 L' D2 L U2 B D2 R2 D2 F2 D B' U L2 R U2 Rw2 Uw'	
2.	R2 U F2 L2 F2 L2 U' F2 D2 U' L2 B' D' R' U' F L' B2 R F' Rw Uw'	
3.	F2 D L2 D' L2 R2 B2 U L' D2 F U' B L' U R2 U2 R' B' D' Fw	
4.	U2 R D2 R F2 D2 U2 L D2 B2 L' D F' L2 F R' F2 L D L2 D2 Fw Uw'	
5.	D B2 D R2 U B2 D F2 U2 B R B' F2 L2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

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

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

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

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

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