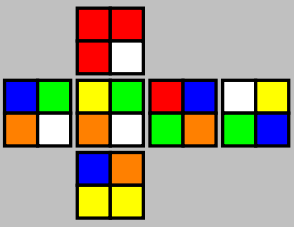
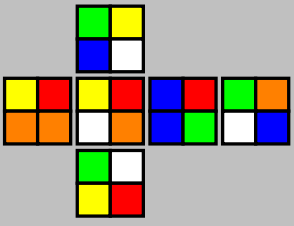
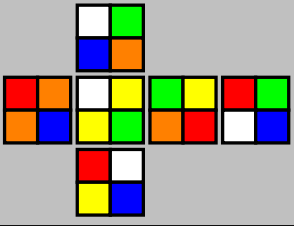
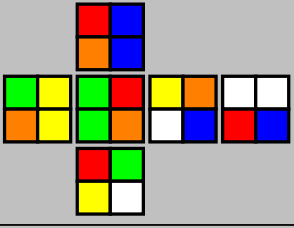
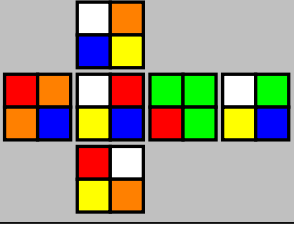
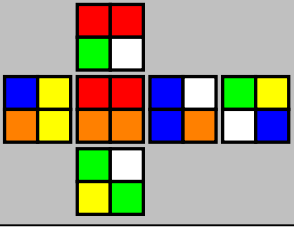
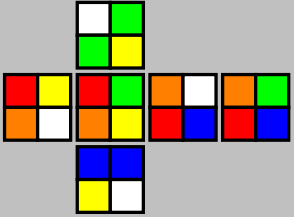
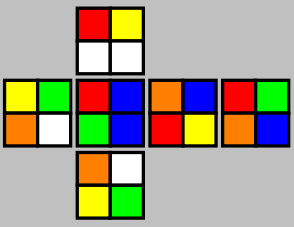
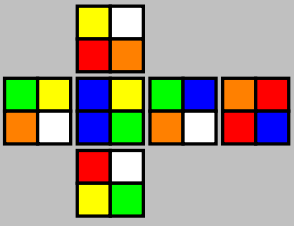
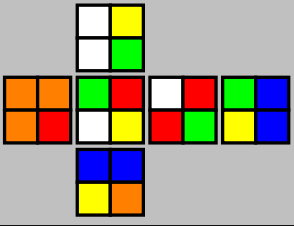
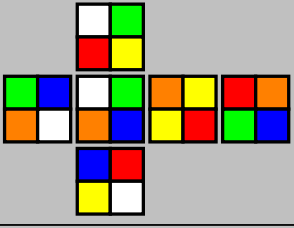
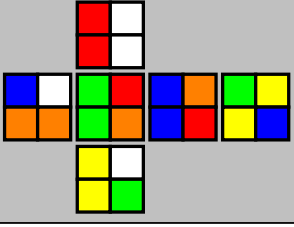
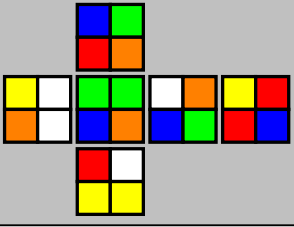
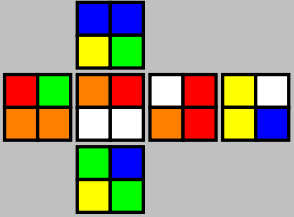
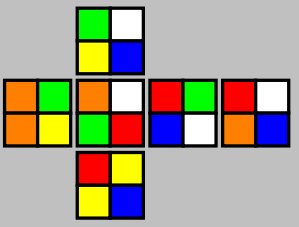
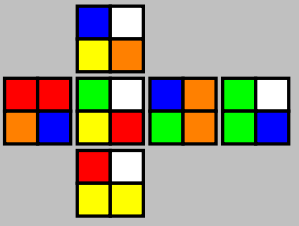
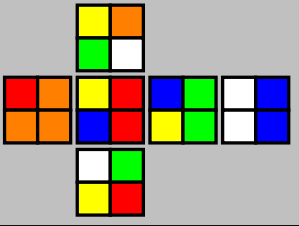
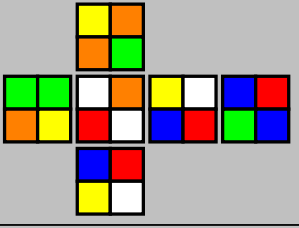
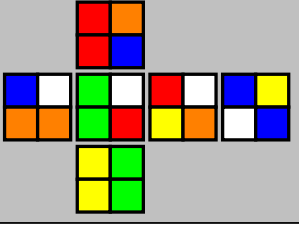
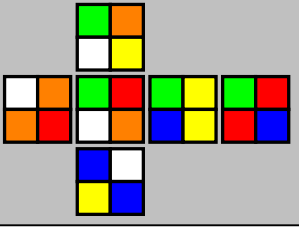
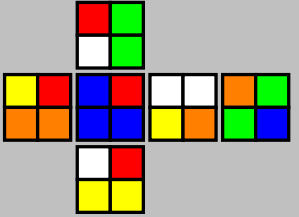
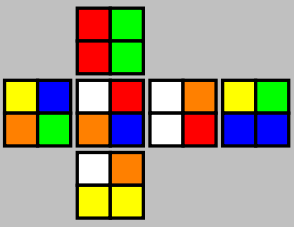
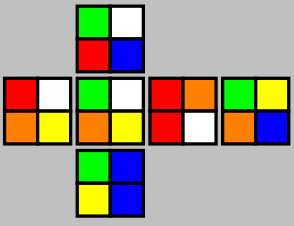
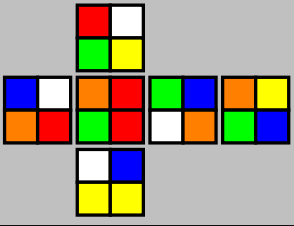
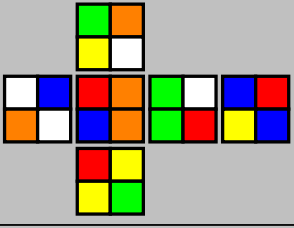
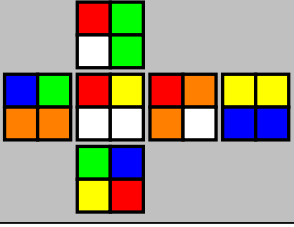
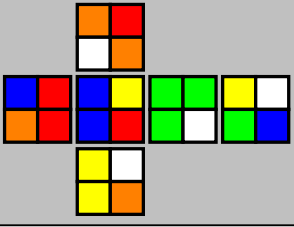
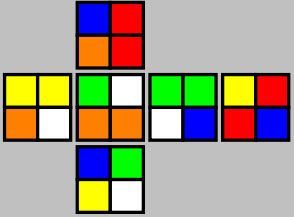
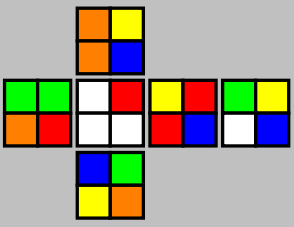
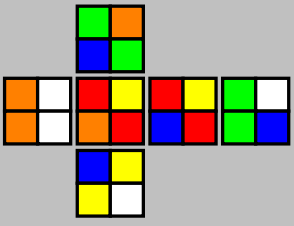
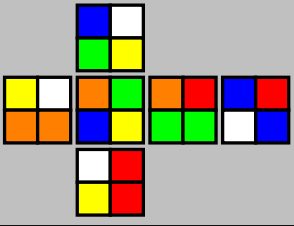
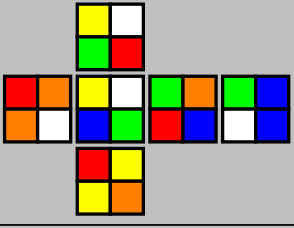
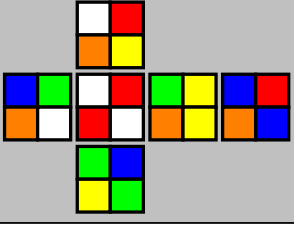
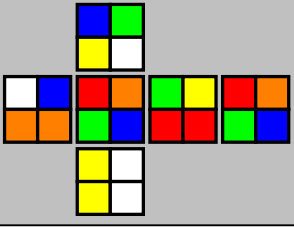
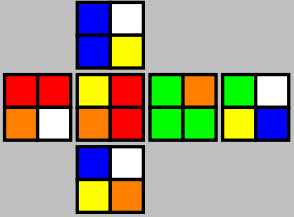


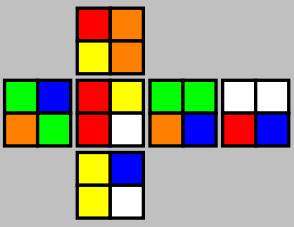
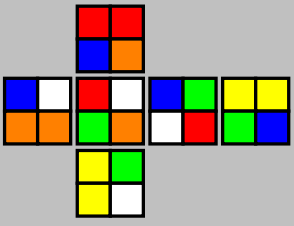
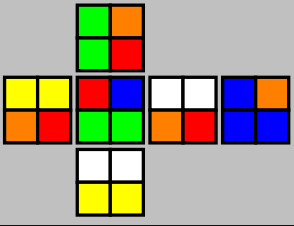
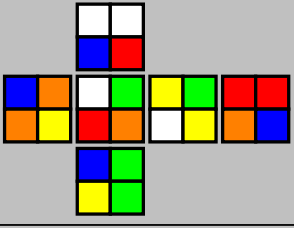
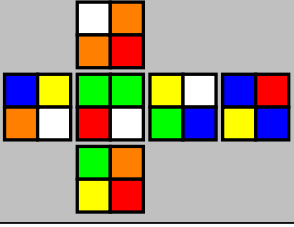
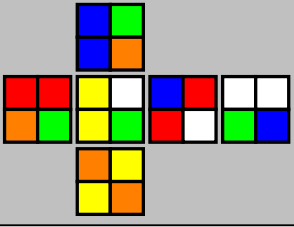
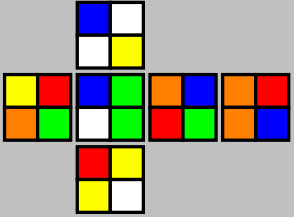
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2.	R U' R' F R U R' U R' U2 R	
3.	R U2 F U' R U R' U R U' R'	
4.	R' F U' F R' U' R U' R F' R'	
5.	R' F' R U' R F R2 U' R2 U R'	
Extra scrambles		
E1.	R' U F U R2 U2 R2 F R F U'	
E2.	U F' R U R' F U2 F' U2 R U	

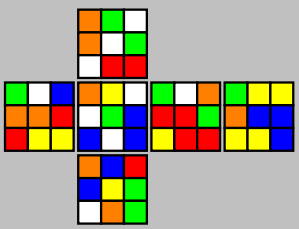
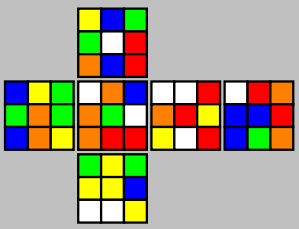
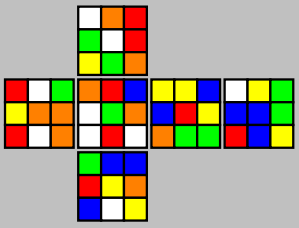
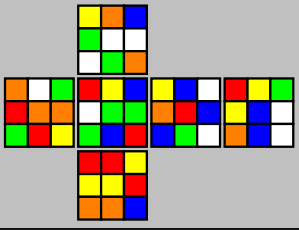
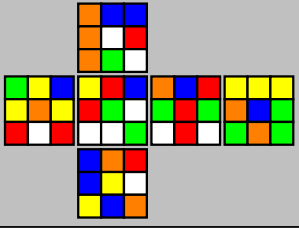
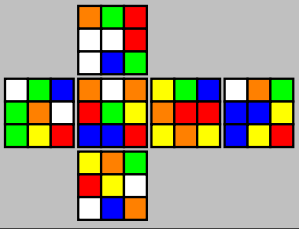
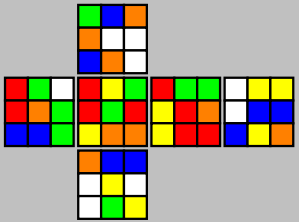
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2.	$R U' R' U^2 R U^2 F' U^2 F' U' R'$	
3.	$U R F U^2 R^2 U^2 R^2 U' F U^2 R^2$	
4.	$R' F R^2 U' F' U' R' U R U' R'$	
5.	$R^2 U' R' U R' U^2 R^2 U' R^2 U' R^2$	
Extra scrambles		
E1.	$F U' F U' R^2 F' R' U^2 R' U^2 R$	
E2.	$U R U^2 R' F U' R U' R'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

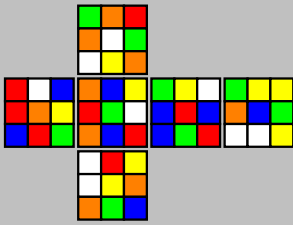
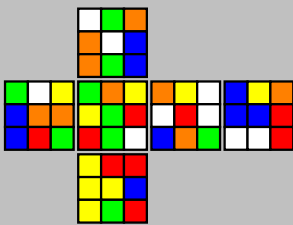
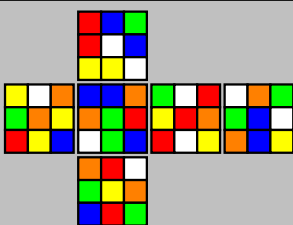
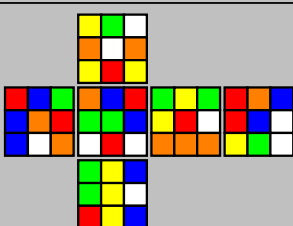
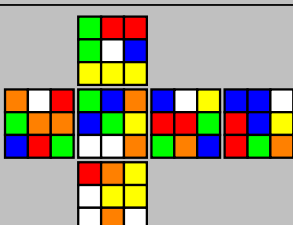
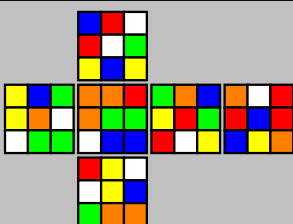
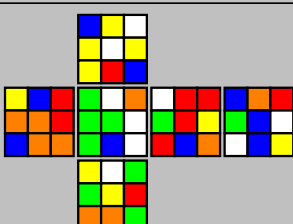
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2.	$R U' R^2 F R^2 U^2 F R' U' R U^2$	
3.	$U' F' R' U^2 R' U' F U' F^2 R U$	
4.	$R F' U' R' U R^2 U' F^2 U^2 R U'$	
5.	$U^2 R' F R' U^2 F R^2 U' F R U'$	
Extra scrambles		
E1.	$R' F U^2 F' R^2 U' R^2 F^2 U' R U$	
E2.	$R U^2 F U' F U R' U' R U' R'$	

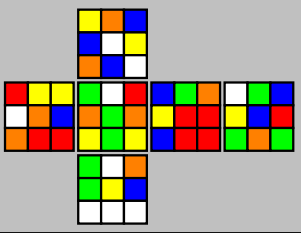
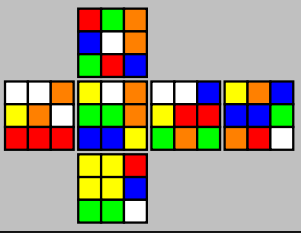
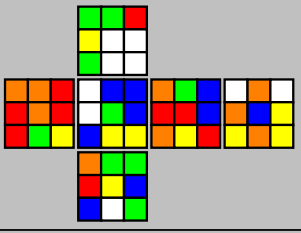
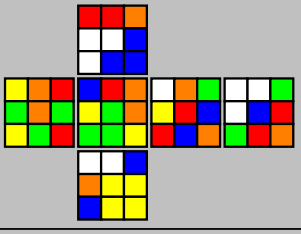
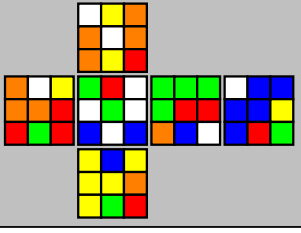
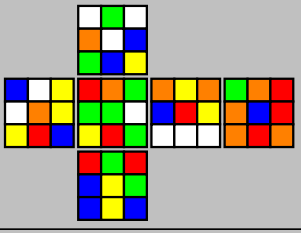
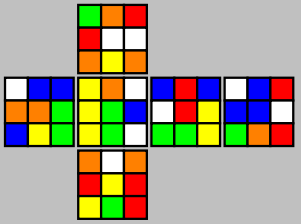
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2.	$U' R U' R' F' U^2 F' U F' R U$	
3.	$R U' F' U^2 R F' R^2 F U' R U$	
4.	$U R' F U' F U' F^2 U' R U R'$	
5.	$U^2 R' U' F U^2 R' U' F^2 R U R'$	
Extra scrambles		
E1.	$R' U' F^2 U^2 R U' R U' F' R' U'$	
E2.	$R' U^2 R F' R' U R' F' U' R^2 U'$	

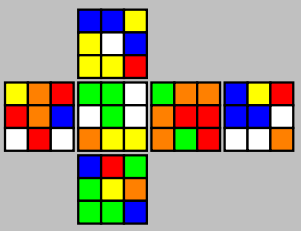
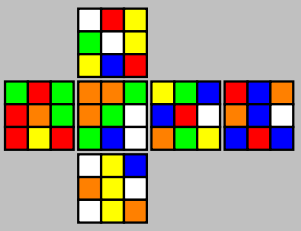
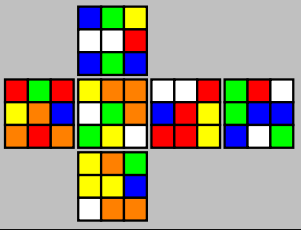
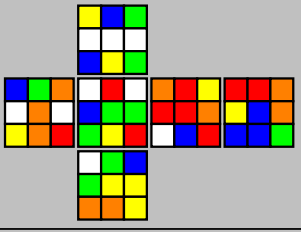
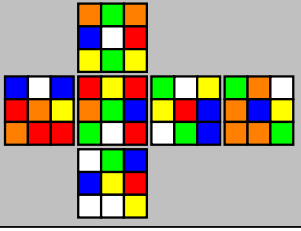
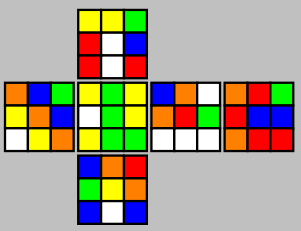
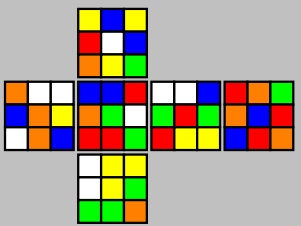
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2.	$U^2 R' U' R U' R^2 F U^2 R U^2 R'$	
3.	$F' R^2 U^2 F U' F U' R^2 U' R^2 U'$	
4.	$U R' U F U' F U' F U F R$	
5.	$R F' R^2 F' R^2 U^2 R' U^2 R' F' R$	
Extra scrambles		
E1.	$U' R U' F' R' U R' U^2 R' F' U^2$	
E2.	$R U' F' U' R^2 U' R U^2 R' U' R'$	

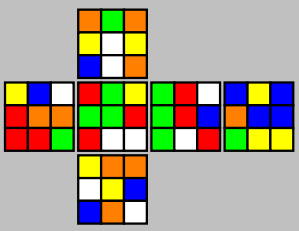
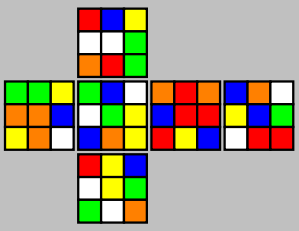
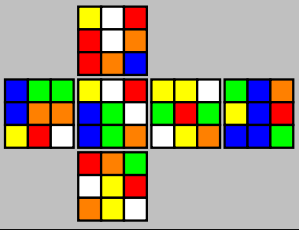
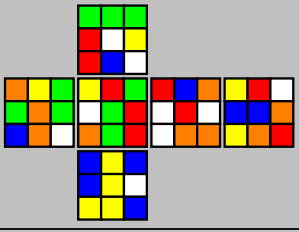
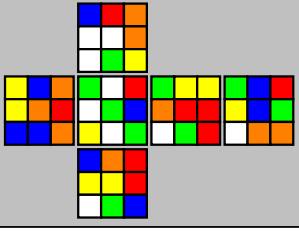
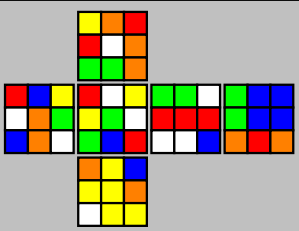
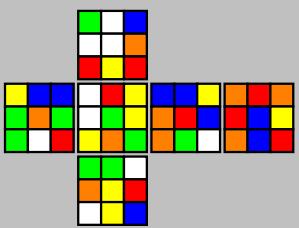
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2.	$U R U' R2 U2 R U2 R' F' U F$	
3.	$R U' R U R' F U' F R2 U' R'$	
4.	$R' F' U R' F U' F R U' R' F$	
5.	$R' F' R2 U2 F' R2 U2 R U2 R' F$	
Extra scrambles		
E1.	$U' R' F' U' F' R U2 R' F' R U2$	
E2.	$U2 R' U R2 F' U' F' R2 U2 F R2$	

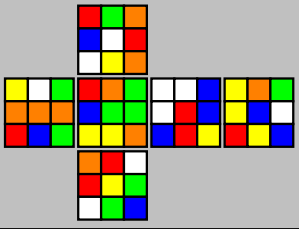
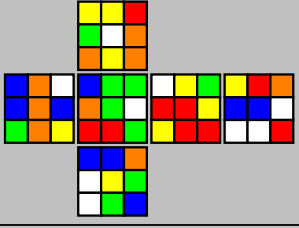
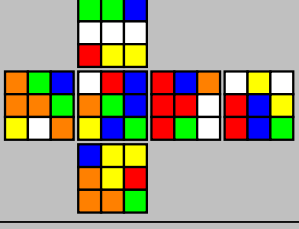
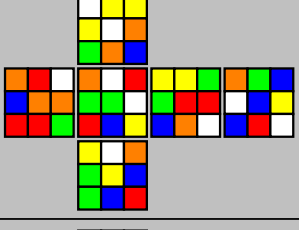
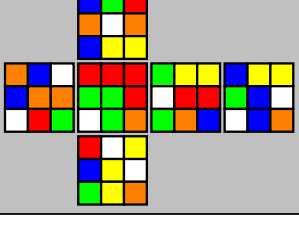
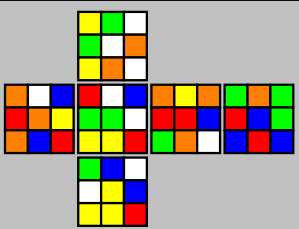
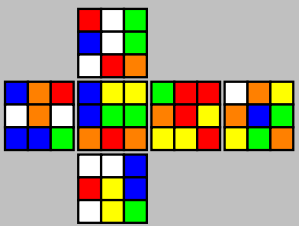
1.	L2 R2 D2 U2 F' D2 B' D L2 F' U2 F L' R' F D B L'	
2.	R2 D2 F2 U2 F' L2 R2 F D2 F L D L2 F2 D2 B' L U2 L2 U'	
3.	L2 U R2 U' F2 D R2 D U L R D' F2 D' L' B F D' L U	
4.	F2 U' L2 D L2 U L2 D L2 B F' L' D F U2 R2 D' F2 L' R2	
5.	R B2 F2 L' B2 U2 L2 R2 B L' F2 R2 U B2 R F L F2 U'	
Extra scrambles		
E1.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

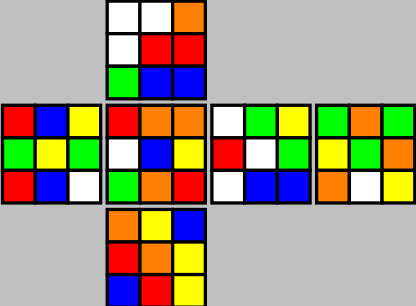
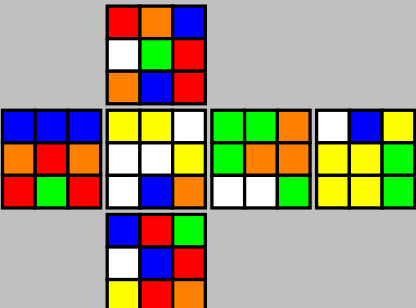
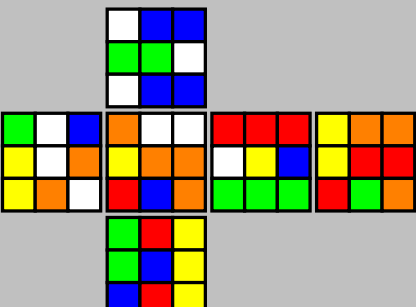
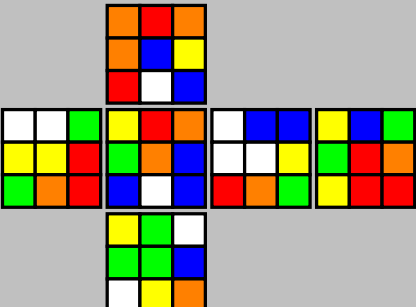
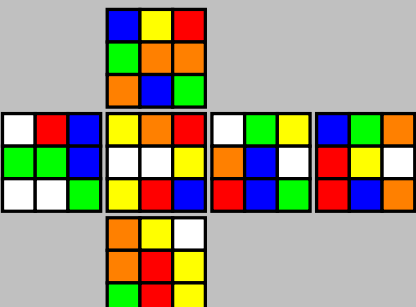
1.	B2 D F2 U B2 R2 F2 U' R2 U R' U B D' B2 L U L' F' R' U'	
2.	L2 B2 L U2 F2 B' U' F' D' R D' B2 U2 F' U2 R2 B' R2 F'	
3.	R' D' B' D' R U' R2 L' B' D2 F B2 L' U2 R' F2 U2 F2 B2 L2	
4.	B' D2 B2 L' U D2 L D' B2 R2 F' U' F2 U2 B2 L2 D2 R2 D'	
5.	D R' D' L F' L F B' R' D2 L2 F D2 F2 R2 F L2 B2 R2 F'	
Extra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

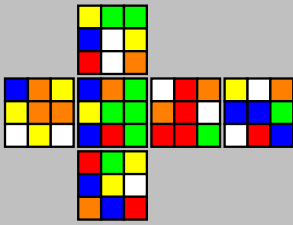
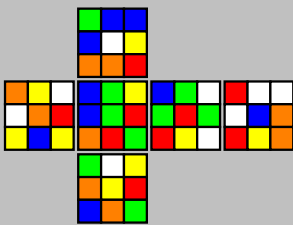
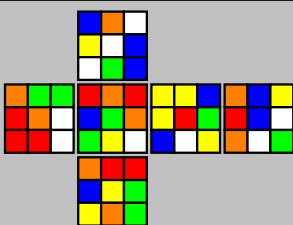
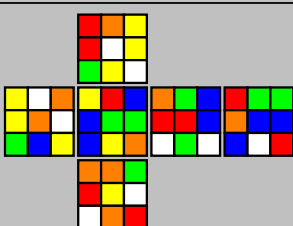
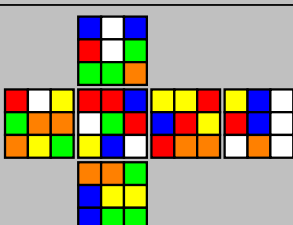
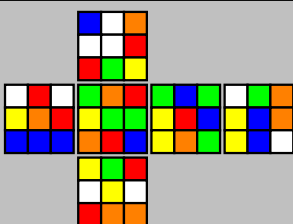
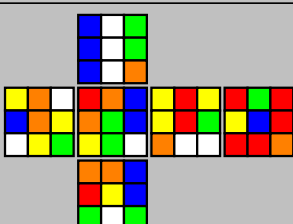
1.	<p>U2 F2 D2 U2 R2 D' B2 D' B2 R D L2 R F' D' U2 R F' U2 L'</p>	
2.	<p>F2 L U2 R B2 F2 D2 L' B L2 F' U R U R U' R B2 U2</p>	
3.	<p>R2 U2 R' B2 L R2 D2 L D2 R' D' B2 L' F' R D' R F D L</p>	
4.	<p>D R2 D F2 D2 R2 B2 U2 L2 U' F' D' L U F2 L2 U L U R'</p>	
5.	<p>D2 L2 B2 R2 F2 D2 B2 U' R2 U' L2 B' L U'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

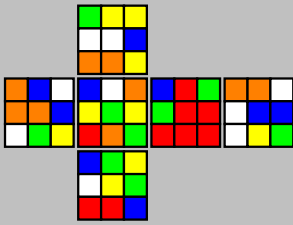
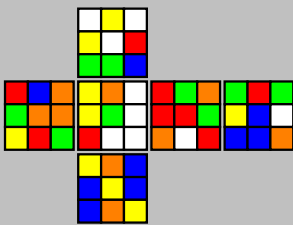
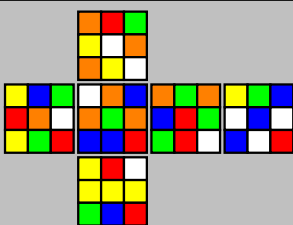
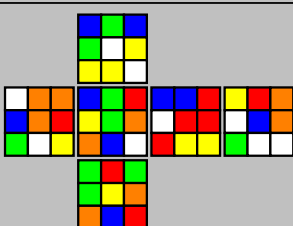
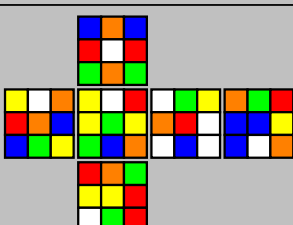
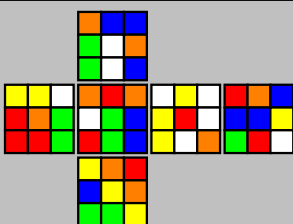
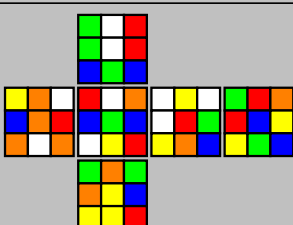
1.	D2 L2 F' U2 B U2 F' R2 U2 L U' L U2 F' D2 R' B2 L D	
2.	D' L' B' U F2 U B U' B D L2 U2 D2 R U2 F2 L D2 F2 R	
3.	B U2 B2 R2 F U2 B L2 B D' L' D' U' B D2 B2 R' B'	
4.	B2 U L2 B2 L2 D2 U' B2 R' B' U R' F R2 B U L2 D' U'	
5.	F R2 B L2 B2 U2 B' L2 B2 U2 F' D' F U' L' D B2 F2 U2 L F	
Extra scrambles		
E1.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

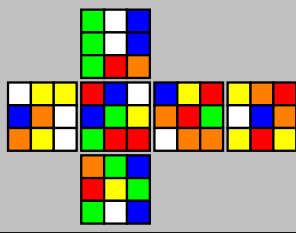
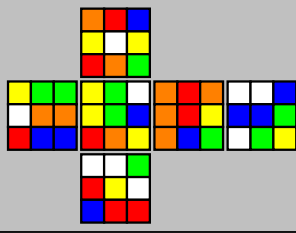
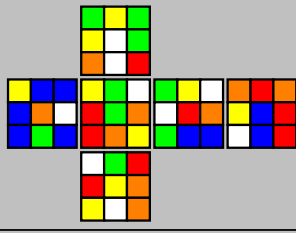
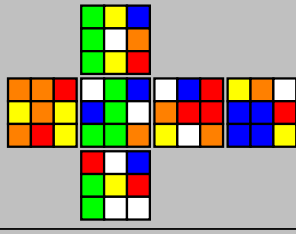
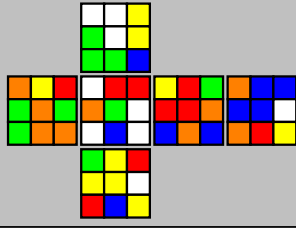
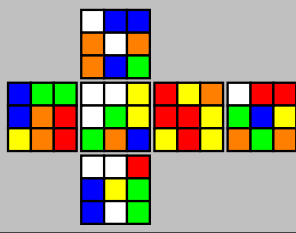
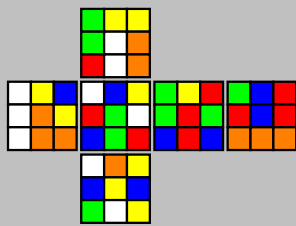
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2.	U' R2 D L F D' F' D' R' U2 R2 U L2 D' R2 U' R2 F2 U2 L2	
3.	F' L2 D2 B' U2 B2 F' U2 F2 D' R' F2 R2 U B R2 B2 L R' F	
4.	U F' B' U' F2 B D' R' U' F' R2 F2 L2 D2 F2 D2 R' D2 L U2 B2	
5.	R' D2 U2 L2 D2 R' D2 F2 L R2 B2 D' L2 D R2 D' B F' R F' D'	
Extra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

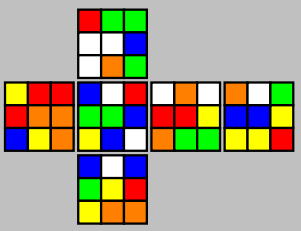
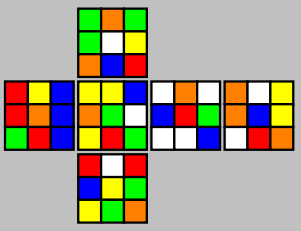
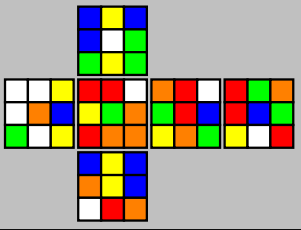
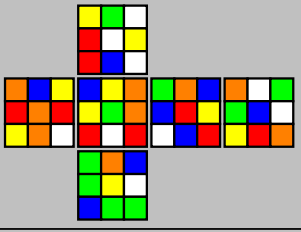
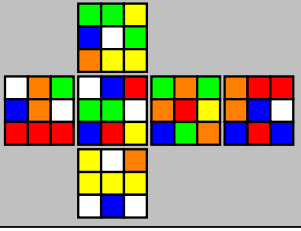
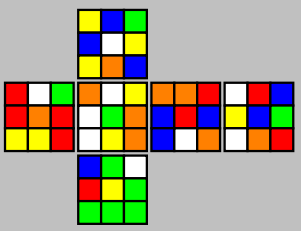
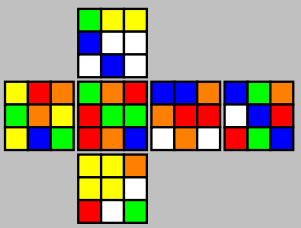
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2.	R2 U R L F2 R2 U B' U B2 U D R2 U B2 D R2 U2 F2	
3.	L2 U' F' B D' L2 B' R U' R2 F2 D2 R2 B2 D2 R' D2 R B2 L'	
4.	R2 B2 R2 D2 R2 U2 B2 R B2 D2 U' R2 B' U2 B' R' D2 B2 D2	
5.	L2 B2 R2 F' D R L' U2 R B U D L2 B2 U L2 F2 U L2 B2	
Extra scrambles		
E1.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

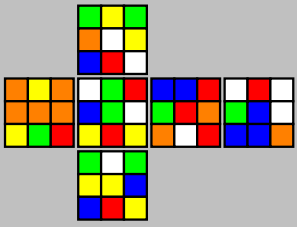
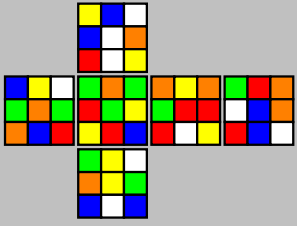
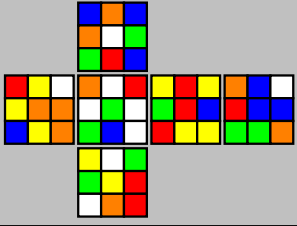
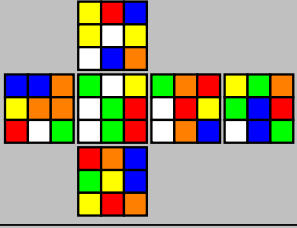
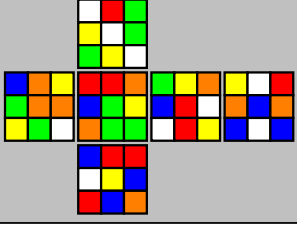
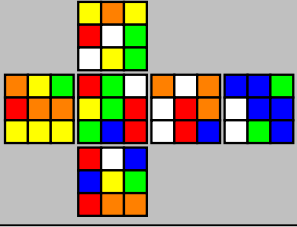
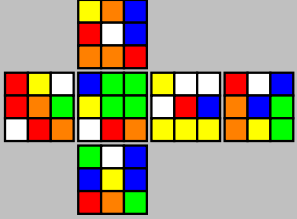
1.	<p>U B2 L2 R2 D2 R2 U L2 F' D2 R' F L' B U' L2 R D' Fw' Uw2</p>	
2.	<p>L2 B2 R2 B2 D2 B' U2 R2 D2 U2 L F D2 F L2 D' U' R U2 B' U2 Rw Uw2</p>	
3.	<p>B L2 U2 L2 R2 F2 R2 D2 F2 D' L R2 D R F L2 U2 B L2 B2 Rw Uw'</p>	
Extra scrambles		
E1.	<p>L' B2 R' D2 L' F2 R' B2 L2 R' D' U B' R' D B R F2 L D' Rw'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

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

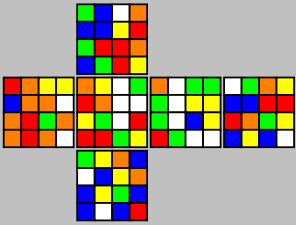
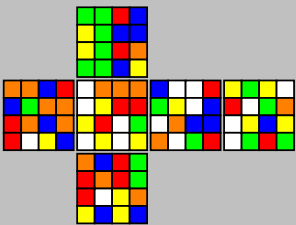
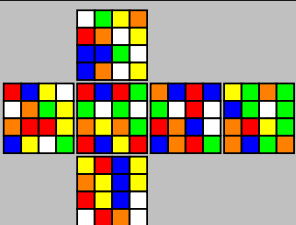
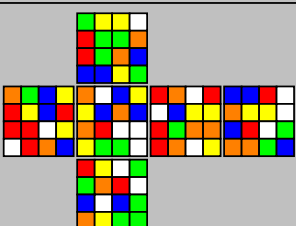
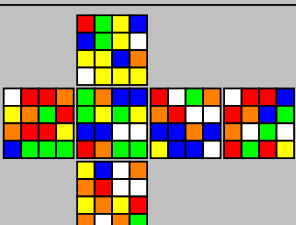
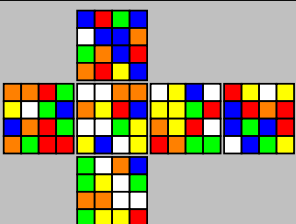
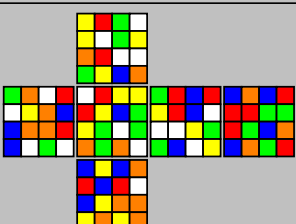
1.	<p>L2 D F2 U B2 D U2 R2 F' R B2 L' D U L D' F' R' B2</p>	
2.	<p>U' R2 B' U D' L' D' F2 B U R2 L' D2 R U2 B2 U2 L2 U2 R'</p>	
3.	<p>D2 R2 U2 B F D2 U2 L2 F' U2 B D R' U F U2 F L' D' L' F'</p>	
4.	<p>D U2 F2 R2 D F2 U' F2 R' B L2 R D B2 F L U R' U'</p>	
5.	<p>U' B2 L2 F2 U2 F2 U2 L2 U R2 B' F2 R U F'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

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

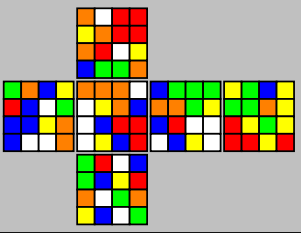
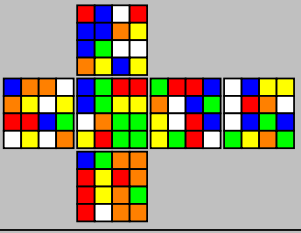
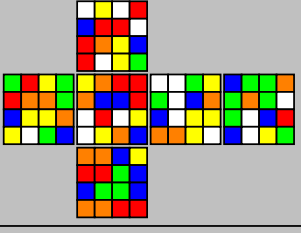
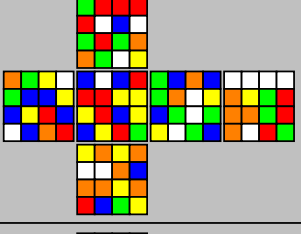
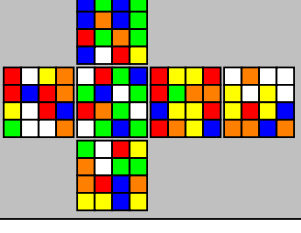
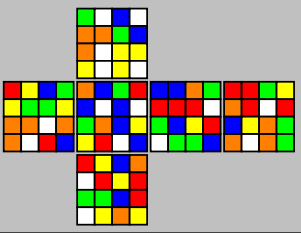
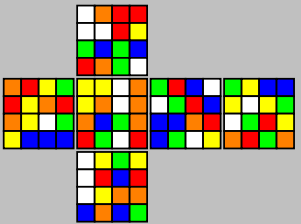
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2.	B2 D2 B D2 F' R2 F' L F' D R2 U' L2 D2 F2 L R F2	
3.	L U2 R' D2 R2 B2 D2 R U2 R2 B2 F' R2 U' B' L2 B2 L' B D' R'	
4.	U B D2 L B' L2 B U' D R' U' R2 B2 U F2 U D2 R2 U' F2	
5.	U2 R2 U2 R2 F' D2 B' F D2 F D' B L2 B D' R' D2 L' D' B'	
Extra scrambles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

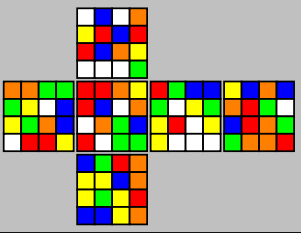
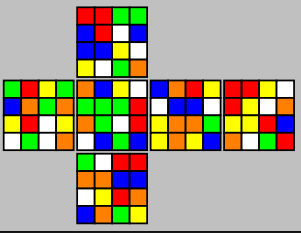
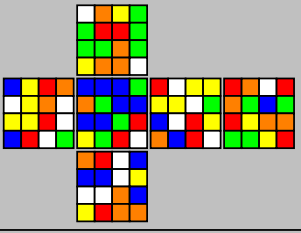
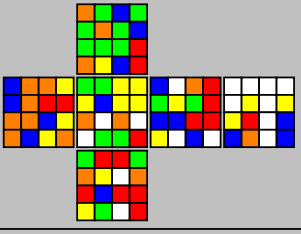
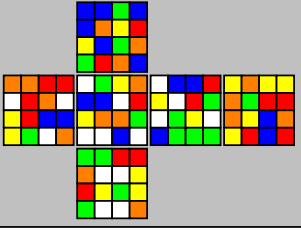
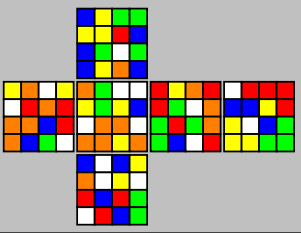
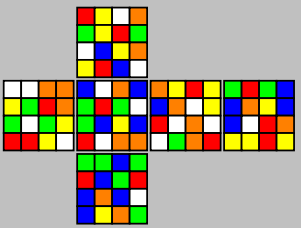
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2.	R U' B L D' R B D2 L' F2 U D2 F2 R' U2 L2 F2 L D2 F2	
3.	D2 L' U2 F2 R' D2 L' F2 L' B2 F R2 B D2 R D' L' B L' F'	
4.	U R2 D' F2 L2 U L2 U' F' U' L' D B U2 L2 B' D U2 L2	
5.	U' R2 D B2 R2 D B2 D' U2 L' B' U' B' R' U R F2 U B D2	
Extra scrambles	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

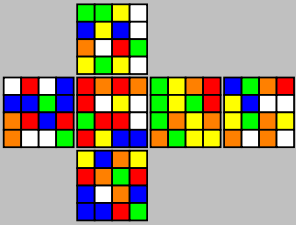
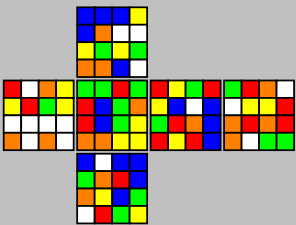
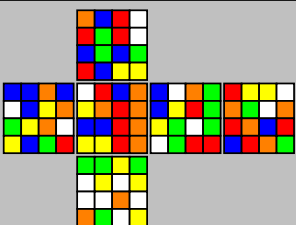
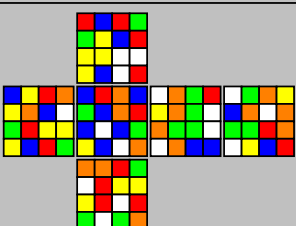
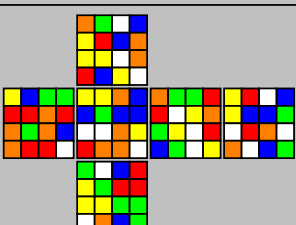
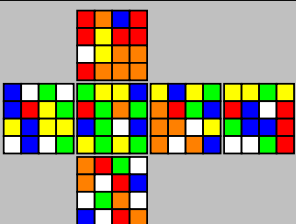
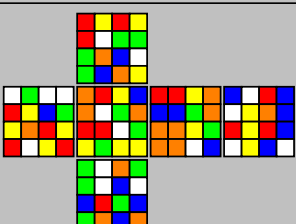
4x4x4 Cube Round 1 Group A
Scrambles for Arctic Open 2018

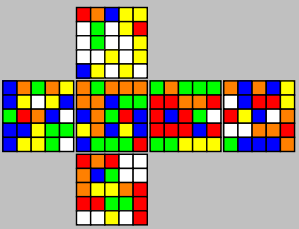
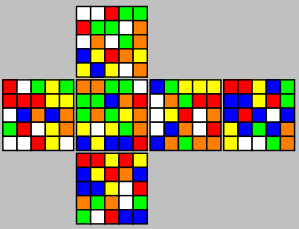
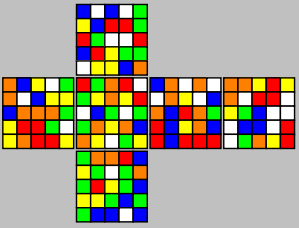
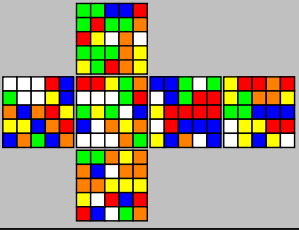
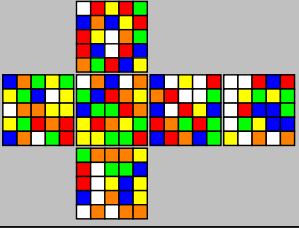
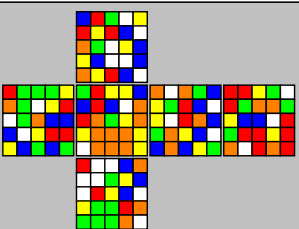
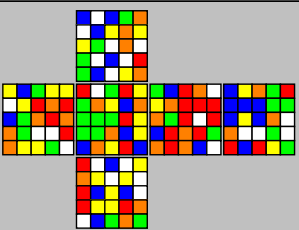
1.	<p>R U B' R D2 L' U' F' R D F2 U2 R L2 F2 L' D2 R' D2 R2 B2 Rw2 U L' Fw2 U2 L' Fw2 L' R2 B2 Rw2 Fw2 U Fw' L' D2 R2 D2 Rw Fw2 Uw' L U2 Rw' R2 F</p>	
2.	<p>U2 B' R2 D2 R2 U2 B R2 F2 L F' U R U L' B2 D F2 R B' Rw2 U F' Uw2 F' D' F R2 Uw2 U L2 F Rw L' F2 Rw' Fw2 F2 Uw Rw' F2 R2 D' Fw Uw'</p>	
3.	<p>L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

4x4x4 Cube Round 1 Group B
Scrambles for Arctic Open 2018

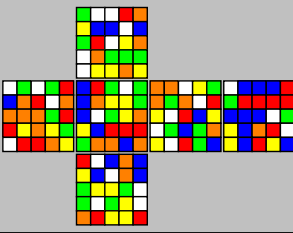
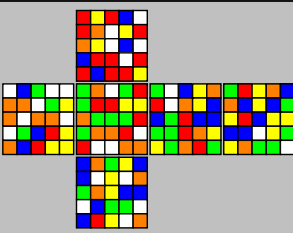
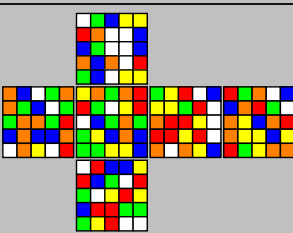
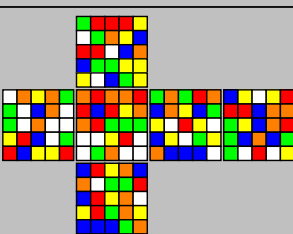
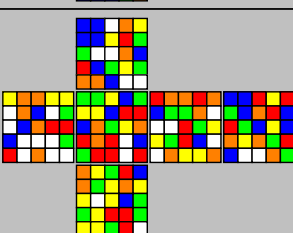
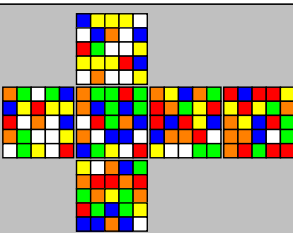
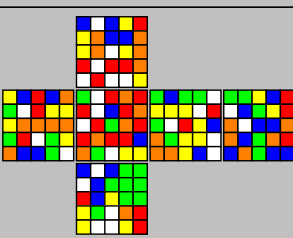
1.	<p>D L D2 F' U' B' U2 R2 U' B' D2 R' U2 R2 L B2 R B2 U2 Rw2 B Rw2 D' Fw2 Uw2 F D R2 D2 F Rw2 B R' F D2 Rw U2 Uw' L2 Fw Uw2 Fw' D' Rw F2</p>	
2.	<p>F R2 F' U2 R2 U2 F' B D2 B2 R B' D' L2 F' B' U2 F' U' L' Uw2 L2 F' Rw2 L' B R2 F2 L' Fw2 B L2 Uw' Fw2 R' Fw2 F' R' Rw' B F' Uw Rw' B' U2</p>	
3.	<p>R'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

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

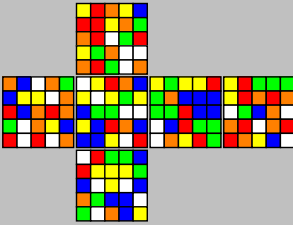
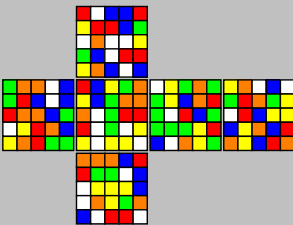
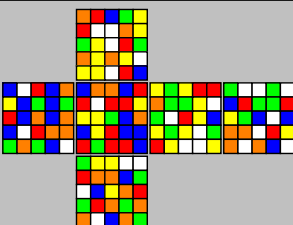
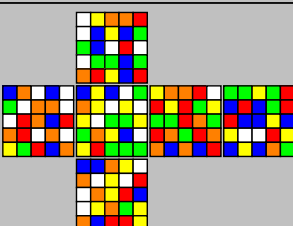
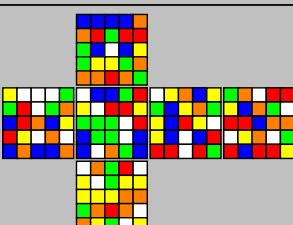
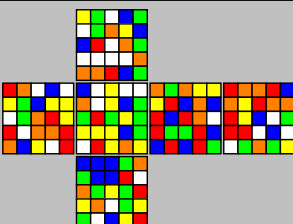
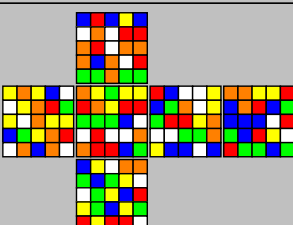
1.	<p>B' D2 R2 F' D2 F' R2 U2 L2 R' F D L' U' L D F U2 R2 F2 Rw2 F Uw2 Fw2 L2 D' F2 D' U' F B R' D' B Rw' B Uw Fw' F' D Rw2 D2 Rw' B</p>	
2.	<p>U2 R2 D2 U2 R B2 D2 R U2 R' B D' U2 R L B F' L U' B2 Rw2 D L' Uw2 R B2 R Fw2 Uw2 Rw2 D F2 L Fw' F' L F2 R2 Fw Rw B2 Rw2 Fw' F U2</p>	
3.	<p>F2 L' U B R2 B2 F2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

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

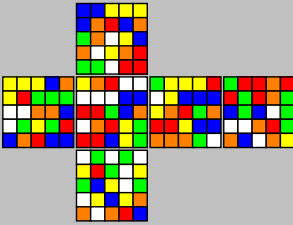
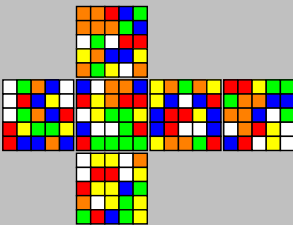
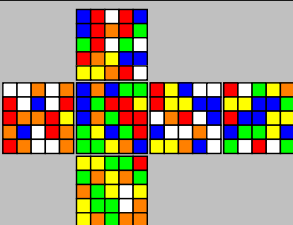
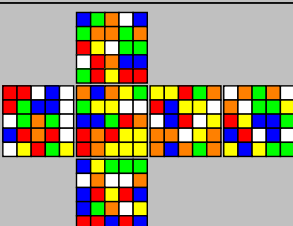
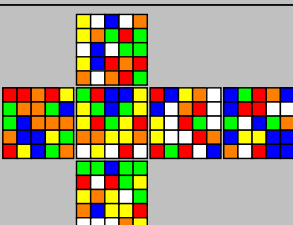
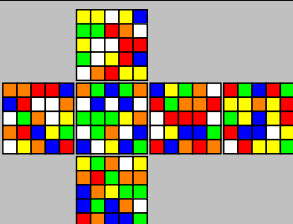
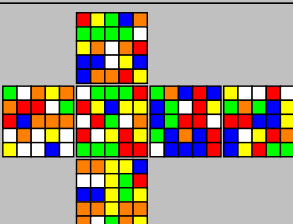
5x5x5 Cube Round 1 Group B
Scrambles for Arctic Open 2018

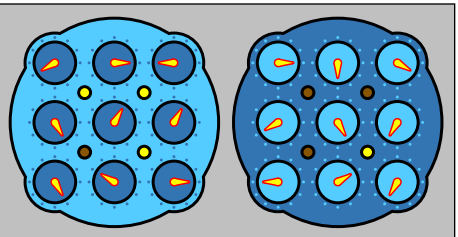
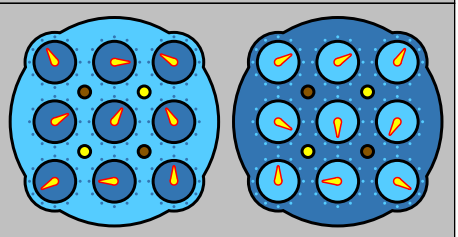
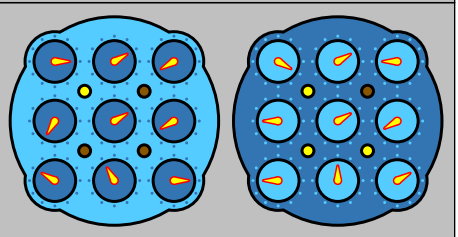
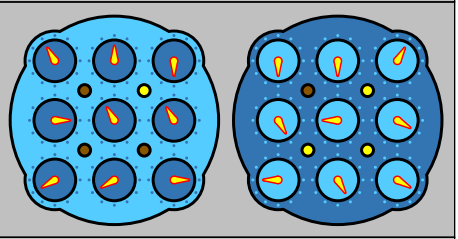
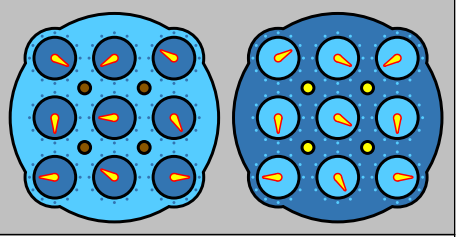
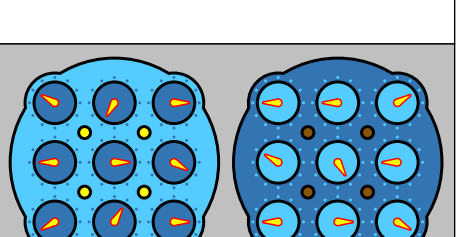
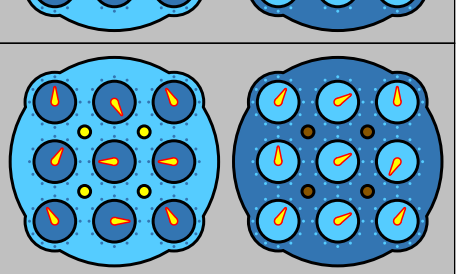
1.	<p>U B R2 Rw Dw' Lw' U2 Lw U Lw L Rw' D2 B2 Bw2 D2 Bw U L Bw2 Uw' Rw2 Bw2 F' Uw' U B' Bw' U' D2 F R Rw L Uw' Dw2 Rw' Lw Dw Lw2 D U Dw B' D' B U Rw2 Uw Fw B Dw2 B F Uw2 D L D' B2 F2</p>	
2.	<p>Bw' R' Lw D2 F' Lw R B2 U' R2 Lw F' Dw Fw2 D2 Dw' B Lw' Dw' U L' R' F' Rw2 Lw D' B' F' Rw B' Fw F Uw' D' Lw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

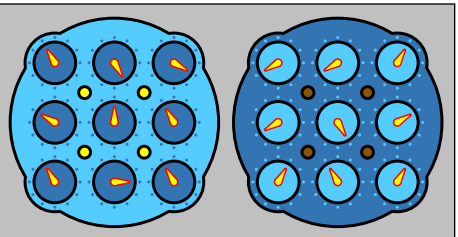
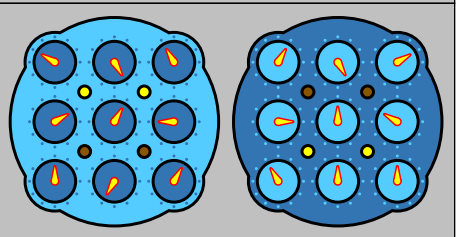
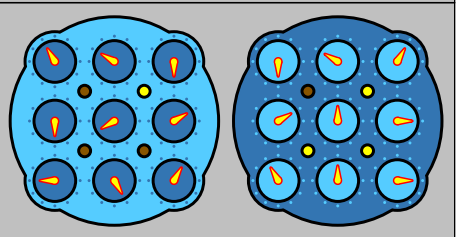
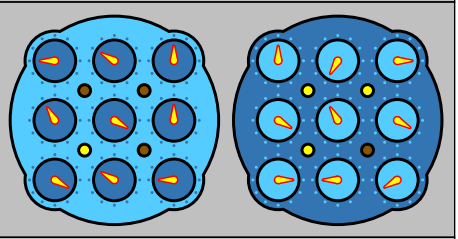
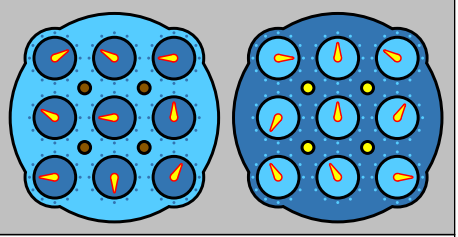
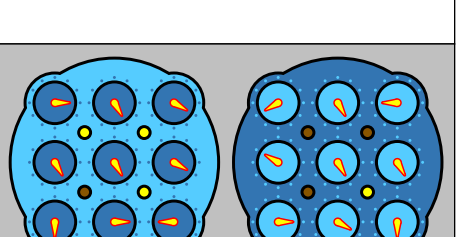
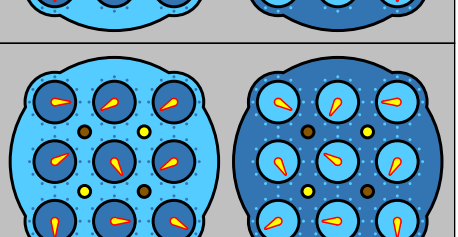
5x5x5 Cube Round 2 Group A
Scrambles for Arctic Open 2018

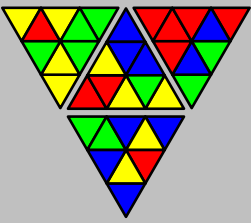
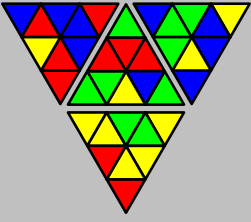
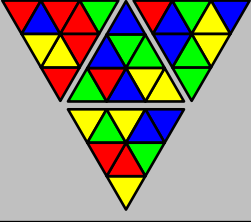
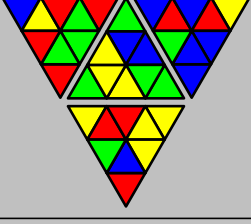
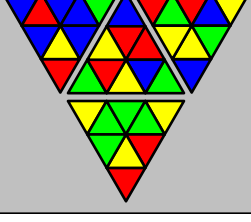
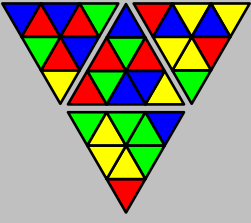
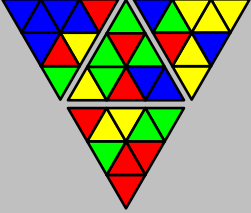
1.	<p>L B' Fw2 Uw B2 Bw' Rw U Lw2 B F D' L' Bw2 B2 Uw' Dw2 U2 B2 U2 Dw' D F Dw2 Bw2 B2 Uw' D2 F2 L' Uw L' U2 Uw2 F2 Dw D' U2 B R' F2 Fw' Lw2 U2 Lw L2 B2 L Lw2 U Rw U2 Lw2 Dw B2 Uw' L Dw' Rw' Fw2</p>	
2.	<p>F' Fw' Dw2 B2 Bw Fw F Rw' Lw B' L U2 Fw' L2 Fw2 L2 F2 U' B' R D2 F' Dw2 Bw2 B Lw Uw Fw2 B' Bw L'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

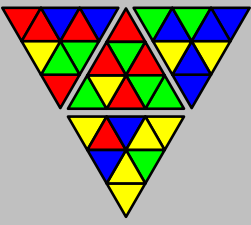
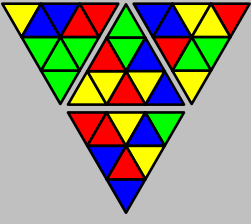
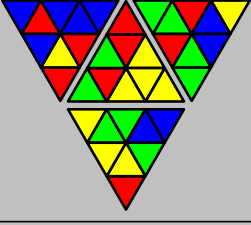
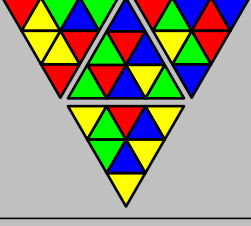
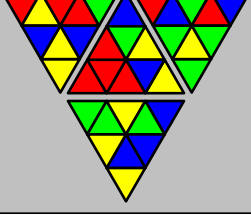
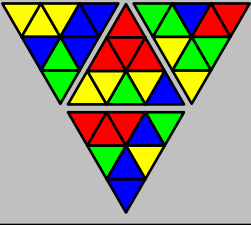
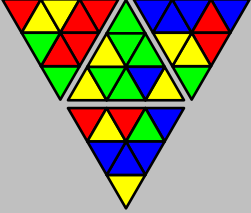
5x5x5 Cube Round 2 Group B
Scrambles for Arctic Open 2018

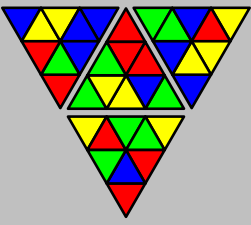
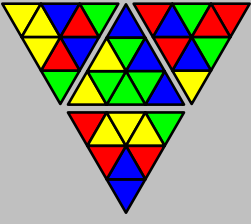
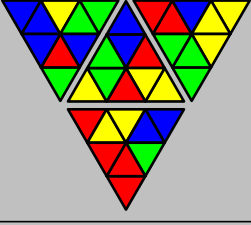
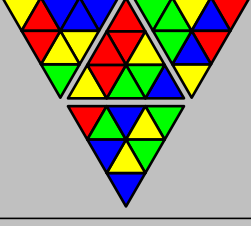
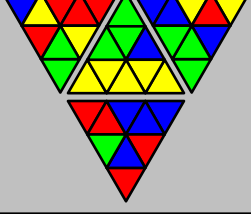
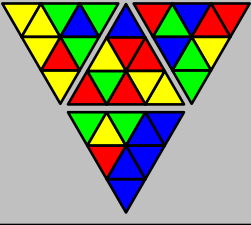
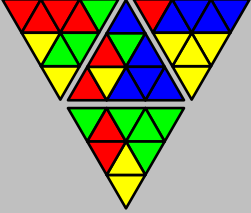
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2.	<p>Bw' R2 U Rw Fw2 Dw Fw2 Rw' F' U' F' Uw Fw Rw2 Fw2 R Dw Fw L U' D2 Uw Fw B Uw2 U2 B Bw2 Rw' L' Uw' F' Bw2 R2 Fw L Bw Uw2 F L' Dw2 D' U2 B' Bw D2 Fw' L2 Dw R Rw' F' U Fw2 Lw R' Uw Fw' Bw2 Uw</p>	
3.	<p>Lw R Fw Uw Bw2 L' Dw F2 D' R' Uw2 Dw' B Lw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

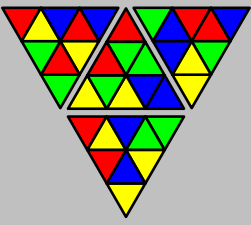
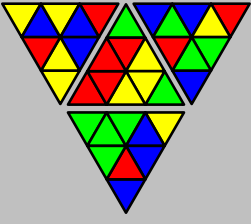
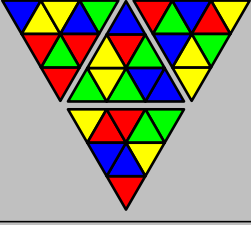
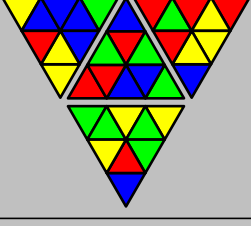
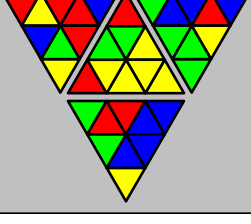
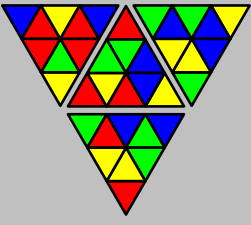
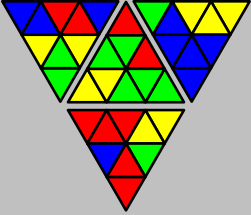
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2.	UR0+ DR3+ DL2+ UL4+ U5+ R1- D1- L5+ ALL1+ y2 U4+ R1- D2- L2+ ALL2- UR DL	
3.	UR5- DR3+ DL4- UL0+ U5- R5- D1+ L2- ALL5- y2 U3+ R5- D0+ L6+ ALL2- UL	
4.	UR4+ DR4+ DL4+ UL4+ U4- R4- D5- L3- ALL3- y2 U3+ R4- D1- L0+ ALL1+ UR	
5.	UR4- DR0+ DL5- UL3+ U0+ R2+ D5+ L0+ ALL3+ y2 U1- R3+ D1+ L4+ ALL2+	
Extra scrambles		
E1.	UR3+ DR3+ DL2+ UL4+ U5- R1+ D3+ L2+ ALL4+ y2 U2+ R6+ D4- L1- ALL0+ UR DR DL UL	
E2.	UR4+ DR6+ DL2+ UL1+ U5- R4+ D4+ L4+ ALL6+ y2 U6+ R4- D4+ L0+ ALL3+ UR DR DL UL	

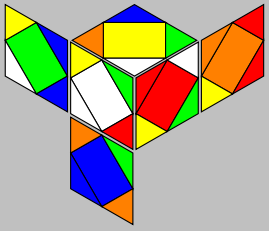
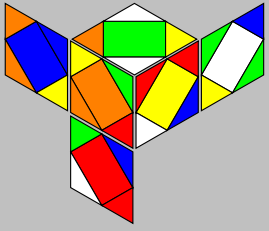
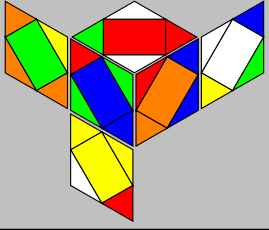
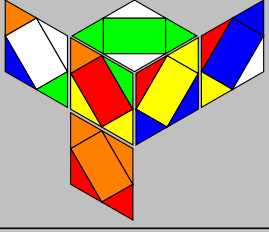
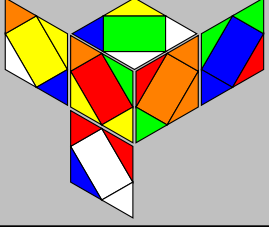
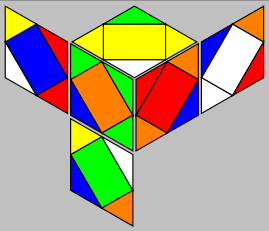
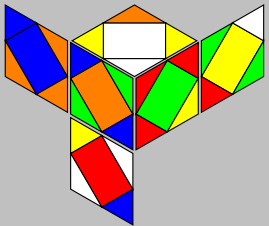
1.	UR1+ DR1+ DL1- UL6+ U1- R5- D3- L2- ALL3- y2 U3- R2+ D5- L1+ ALL5+ UR DR DL UL	
2.	UR1- DR6+ DL5+ UL2- U3+ R4+ D4- L1- ALL2+ y2 U6+ R1- D4- L4+ ALL4- UR UL	
3.	UR4- DR2- DL4- UL3+ U1+ R4+ D4- L2- ALL4- y2 U3+ R2+ D2- L6+ ALL1- UR	
4.	UR5- DR6+ DL4- UL1- U4- R6+ D2+ L0+ ALL1- y2 U6+ R5+ D6+ L4+ ALL5- DL	
5.	UR2+ DR3- DL4- UL2- U1+ R6+ D5- L5+ ALL0+ y2 U3+ R1- D1- L3- ALL1-	
Extra scrambles		
E1.	UR4- DR2+ DL3- UL5+ U0+ R3- D1+ L2- ALL3- y2 U2+ R0+ D0+ L1+ ALL2+ UR DR UL	
E2.	UR2- DR1+ DL2- UL0+ U3+ R6+ D4+ L5+ ALL5- y2 U2+ R3+ D3- L3- ALL6+ UR DL	

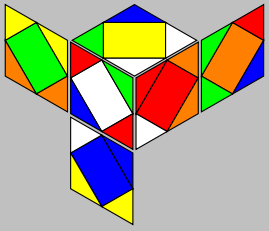
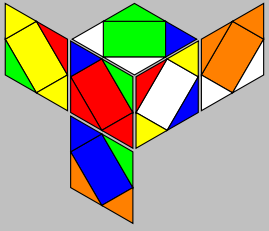
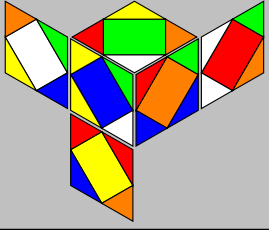
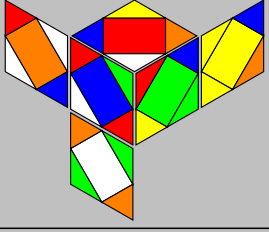
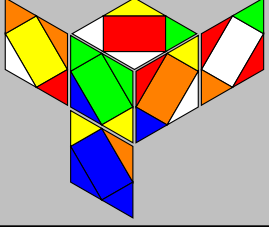
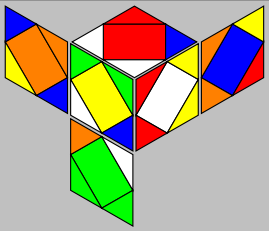
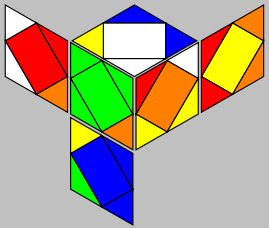
1.	$B' U' R' U L' U' L' B R' U' R' r b'$	
2.	$U' R B' R U R' U' B' R' B' R' u r b$	
3.	$R U' R B' R L' U' B' R L' U' u l' b'$	
4.	$B U B R' U R B L U' L B' u' l b'$	
5.	$U R' B' L' B U R' U L' U' R u' l' r b$	
Extra scrambles		
E1.	$U' R' B L' U L' B' L R' L R u l r' b$	
E2.	$U L' U B' L R U' B R U B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

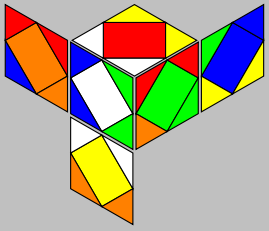
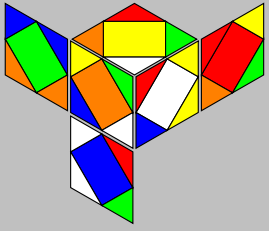
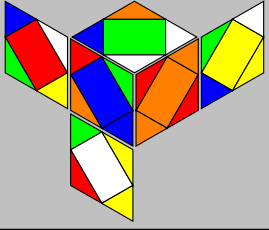
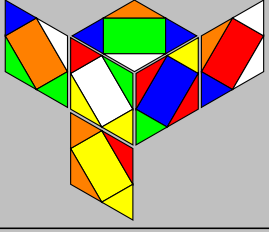
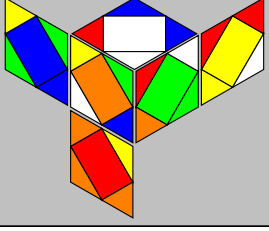
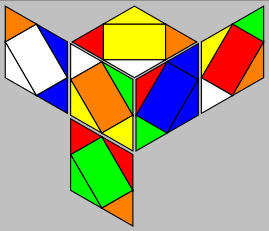
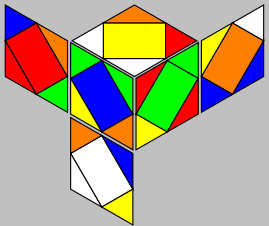
1.	B U' L R' U R' L' R L' B' R u' l	
2.	B' R' L' R' U R L U' B' R' L' r b	
3.	U L B L R' B' L R L U R l' b	
4.	U' B R' L' U L B R' L' U' L' u' l' r' b	
5.	R L R' U' L' R U L R' B' R' u r' b	
Extra scrambles		
E1.	L' U' B R B L U B U' B' L' r	
E2.	R L R' B L U L B' R' U' B' l' r' b	

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

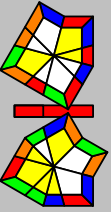
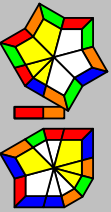
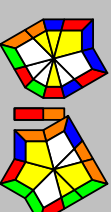
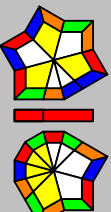

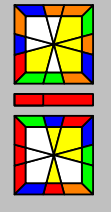
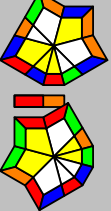
1.	B U' L R' L' R L' R' L U B u' l' b	
2.	L' B L' R U' B R L' R' B' L u r' b	
3.	R' B' U B L B' R L' R' L' U u' l b'	
4.	L U L' R B' R U R B' R' L u' r b	
5.	B' R U B U' B U' L' U' B U' u' l' b	
Extra scrambles		
E1.	B' R' B' R B' U L' U' L' R' L u' l' r' b	
E2.	R' L' R' B' R B' L U L' U' R u'	


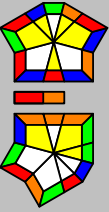
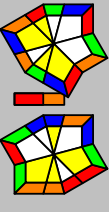
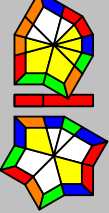

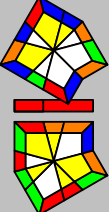
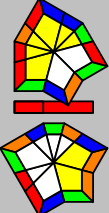
1.	R L U L B' U' R U' R B' U	
2.	B U L U L U' R' L R' B' R	
3.	R B U' B' R' B L R' L' R B'	
4.	U L R B' R' L' U L' U' B L	
5.	B L R B U B L' B' R L U	
Extra scrambles		
E1.	B R U L' U' R U' L B U R	
E2.	U L U' B U L U B' L' R' U	

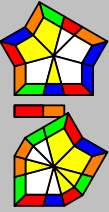

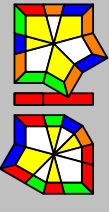
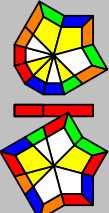
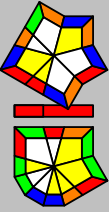

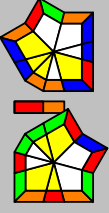
1.	R B U R B' U' B' U' B' R L'	
2.	R B R' U L R' L' B R U' L	
3.	R B U' L B' R B' R U R' U	
4.	R U' B' L B' R' B U R B' U'	
5.	U L U B R' U' R' U L B L'	
Extra scrambles		
E1.	L R U L' U' L B' U' B' R' U'	
E2.	B R B' L' R B' R' L R' L' B	

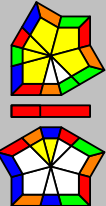

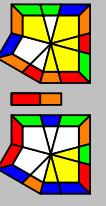

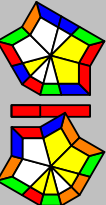
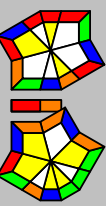
1.	U B R U L R' L' U R U' R'	
2.	R L R' L B' U B' R' U' L U	
3.	U B U B' L' U' B L' R' B' R'	
4.	B R L' U' B' R' B R B L' B	
5.	L U L B R L' U' R' U R U'	
Extra scrambles		
E1.	B U L' B' R' B U B U R' U	
E2.	L R U B' L' U L B' U' L B'	

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

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

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

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

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