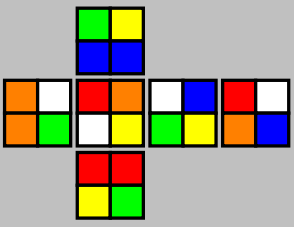
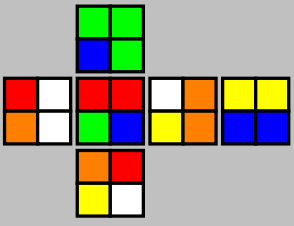
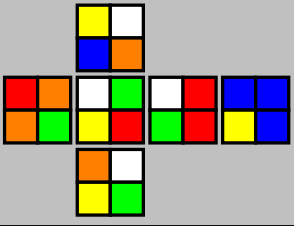
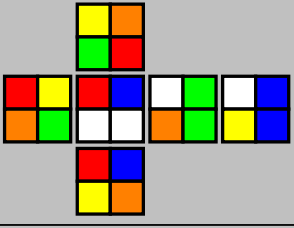
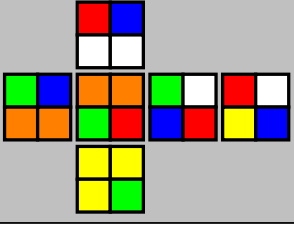
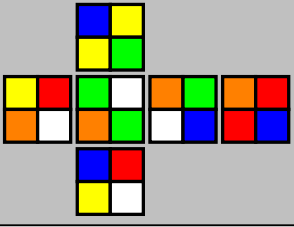
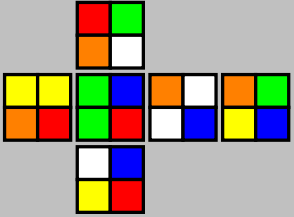
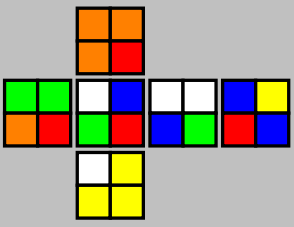
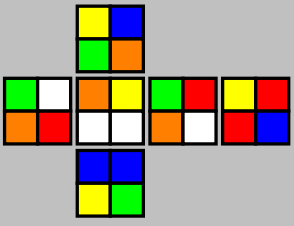
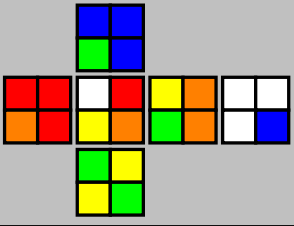
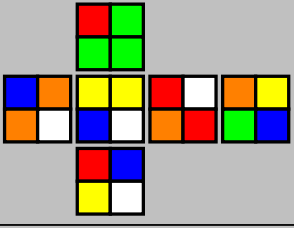
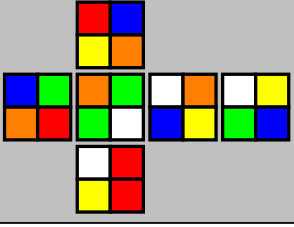
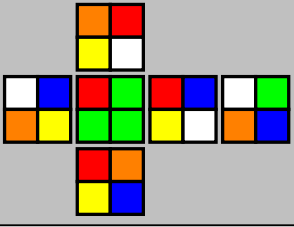
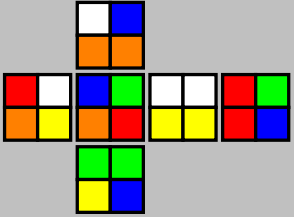
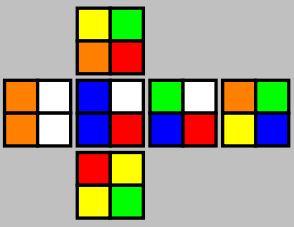
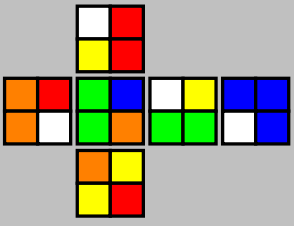
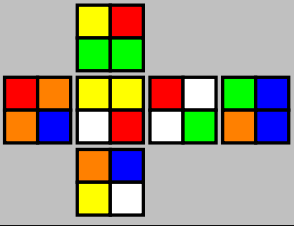
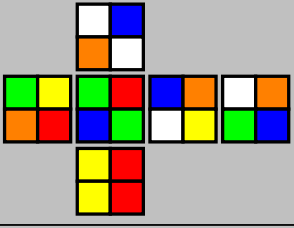
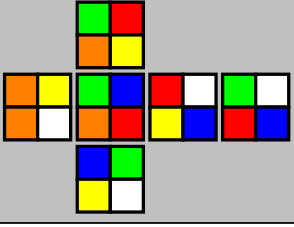
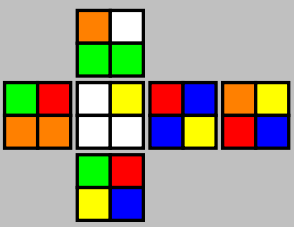
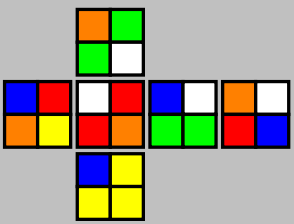
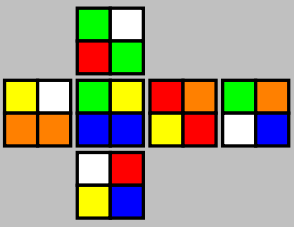
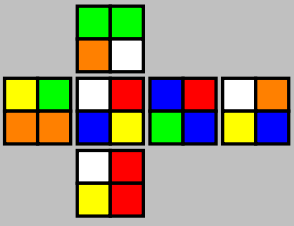
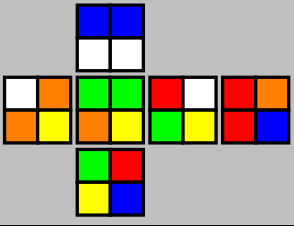
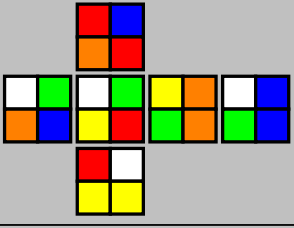
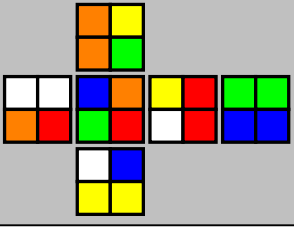
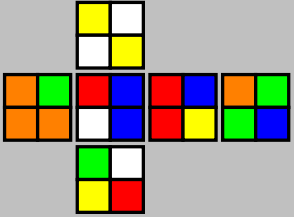
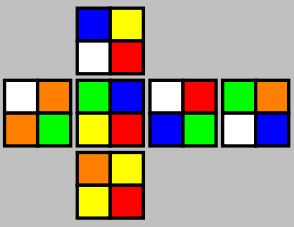
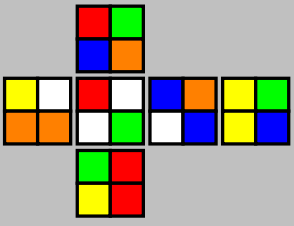
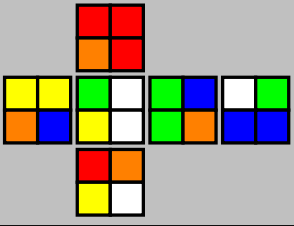
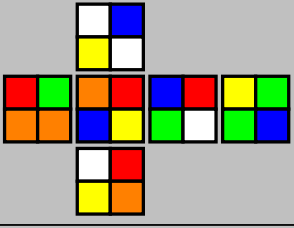
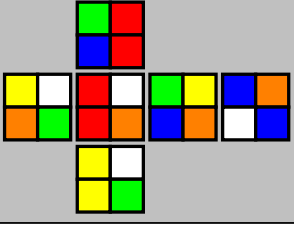
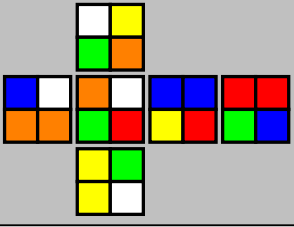
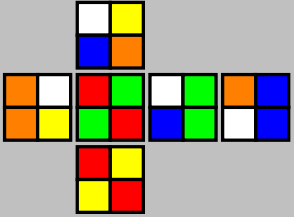


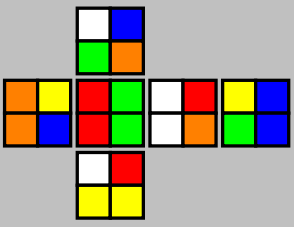
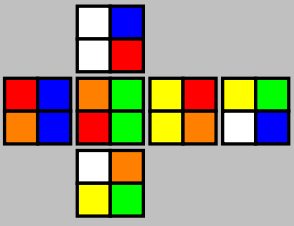
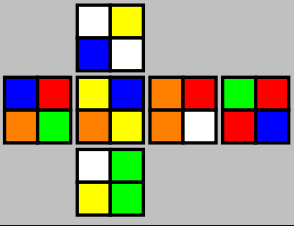
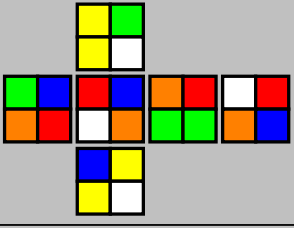
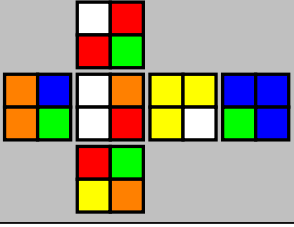
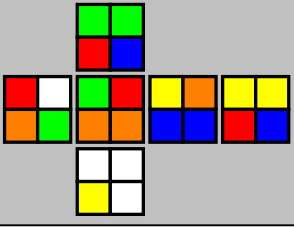
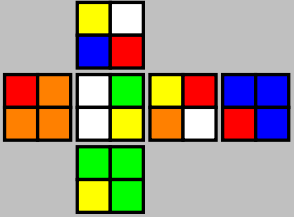
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2.	$F' U' R' U^2 R' F' U^2 F R^2 U' R'$	
3.	$F U' R U R U^2 R' F' U' R' U$	
4.	$R F' R' U^2 R' U R' F^2 U^2 R U$	
5.	$U R F' R' U' R' U^2 F' U' R U^2$	
Extra scrambles		
E1.	$U^2 R' U R U' R^2 U' F R U' R$	
E2.	$R^2 U^2 R^2 U^2 F U^2 F U' F U' R^2$	

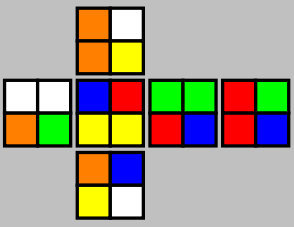
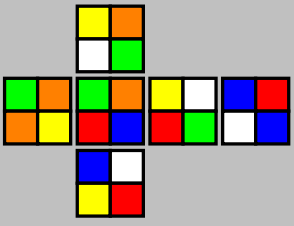
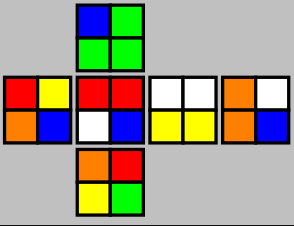
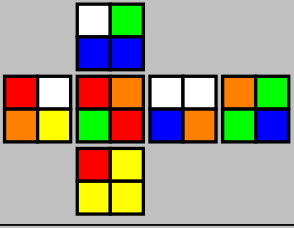
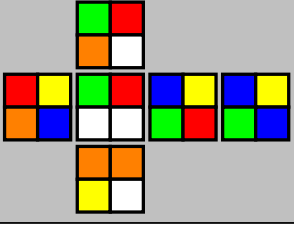
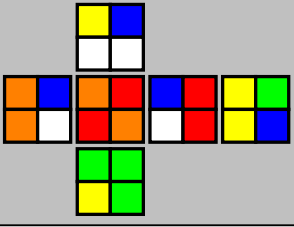
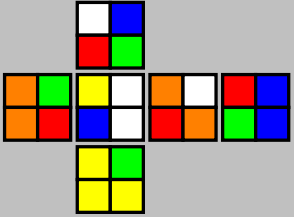
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2.	$U R F R^2 U' R' U R' U^2 F' R^2$	
3.	$R' F R^2 U' R^2 U^2 R U' R^2 F R^2$	
4.	$U' R' U F' U^2 R F' R U' R U^2$	
5.	$U' R' F R' F U' R^2 F U' F R^2$	
Extra scrambles		
E1.	$F U' R^2 U^2 R' U' R' F' U' F R'$	
E2.	$R' F' U' R^2 U' R U' R' U^2 R' F^2$	

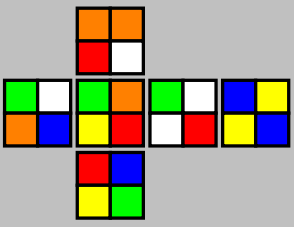
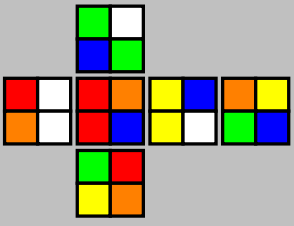
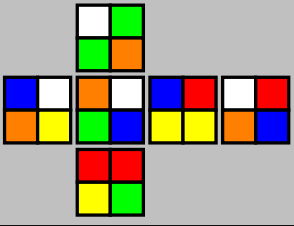
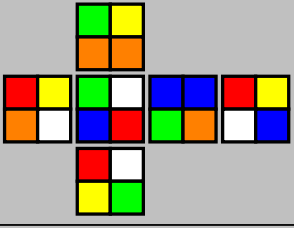
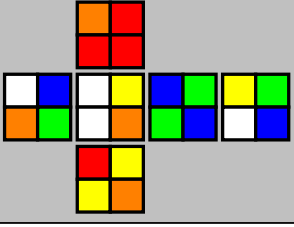
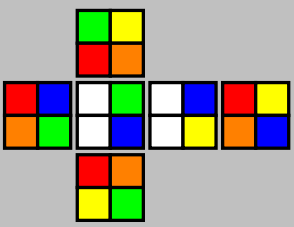
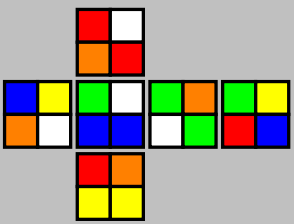
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2.	$R' F U' R U' R' U' R U^2 F^2 R^2$	
3.	$R' F U R' F^2 U R' U^2 R U' R'$	
4.	$U R' F U^2 F U R F' R' U R'$	
5.	$U^2 R' U' F' U' F R' F U F U'$	
Extra scrambles		
E1.	$U^2 R' F^2 U' F U^2 R^2 F R U' R'$	
E2.	$R' U' R^2 F U^2 F^2 U^2 R^2 U' R' U'$	

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

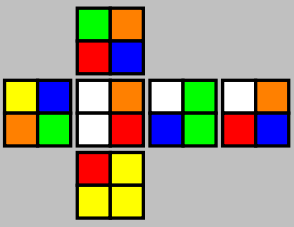
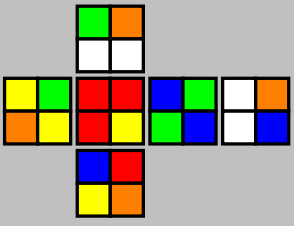
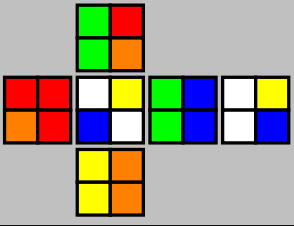
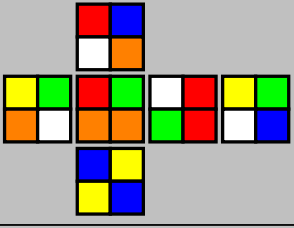
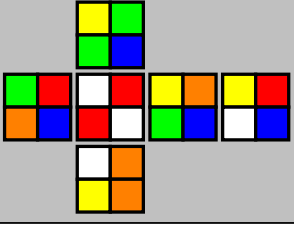
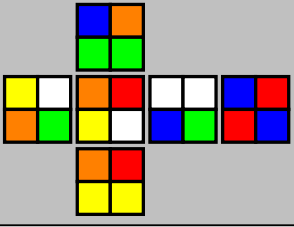
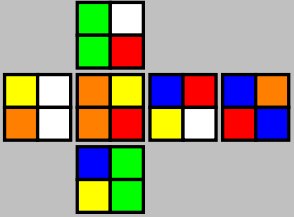
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2.	$R U' R^2 U' F U' F R F R U'$	
3.	$R' F U^2 R U' R F' R' U R F'$	
4.	$R' F' U^2 F U' F R' U' R U^2 R'$	
5.	$U^2 R' U' F U' F U' R^2 U' R^2 F$	
Extra scrambles		
E1.	$R' U' R^2 U^2 R^2 U' R' U^2 R U' R$	
E2.	$R' F U' F R U^2 F R' U' R U^2$	

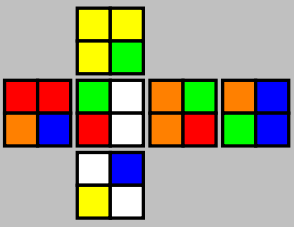
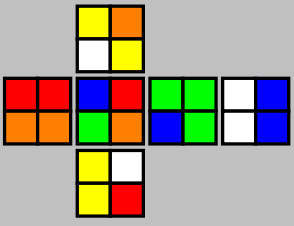
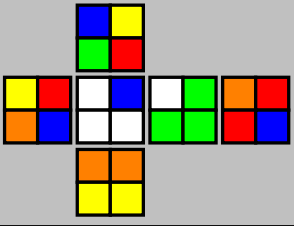
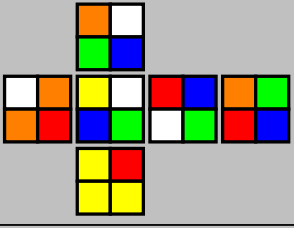
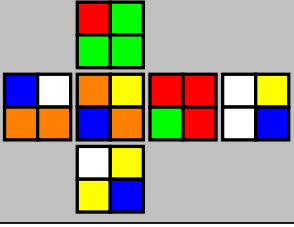
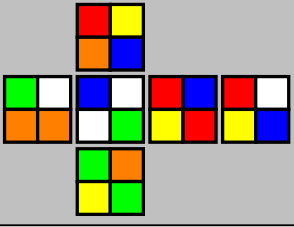
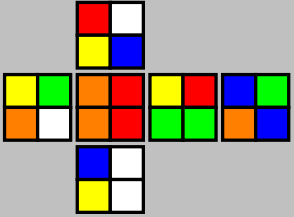
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2.	$R' U' F' U2 F' U' R2 U' R U' R2$	
3.	$U' R' U' R2 U R' F U' R U R'$	
4.	$F U' R U' R U' R' F R U R'$	
5.	$R' U2 F U2 F R2 F' R U' R' U2$	
Extra scrambles		
E1.	$U' R U2 R2 F U R U R' U' F'$	
E2.	$U R U' F U2 F R2 U' F' R' U$	

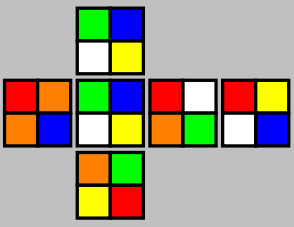
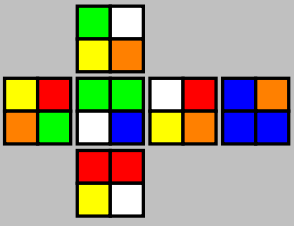
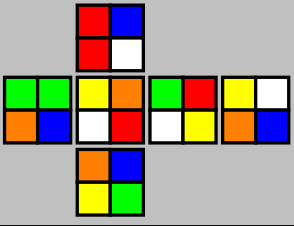
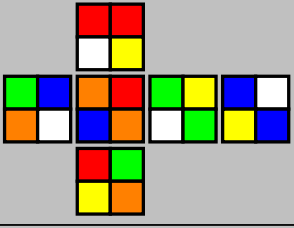
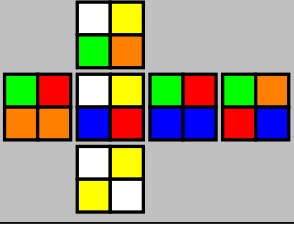
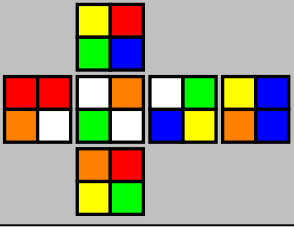
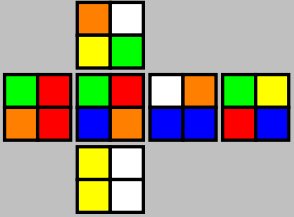
1.	$F' U' R U R' U^2 F' U^2 F' U^2 R$	
2.	$F U^2 R U^2 R U' R^2 U' F U R'$	
3.	$U R' U^2 R^2 U' R^2 U' F U^2 F R$	
4.	$U F' R^2 F' U' R' U R' U' F R$	
5.	$R U' R^2 U F R U^2 R' F R U$	
Extra scrambles		
E1.	$R' F U R^2 U' R^2 F U' F^2 U' R$	
E2.	$F' U' F' R' U R' U' F R U R'$	

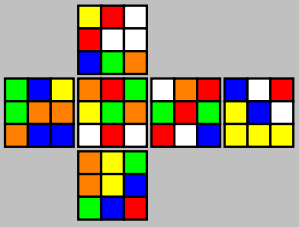
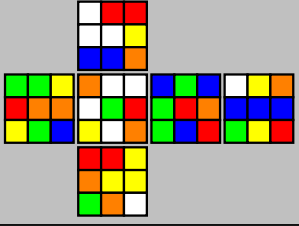
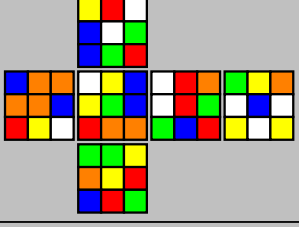
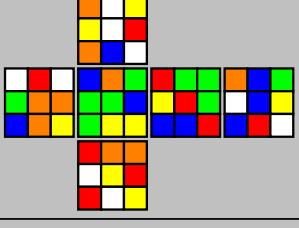
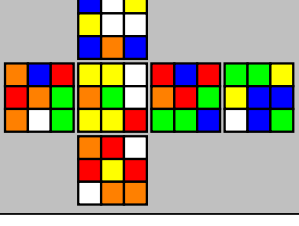
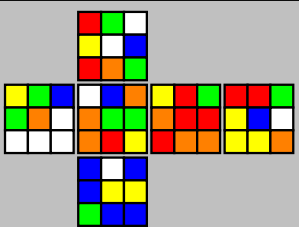
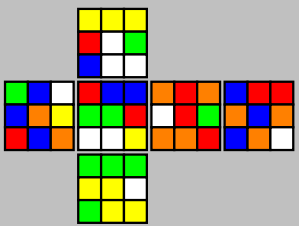
1.	$U^2 R' U' R^2 U' R' F' U^2 R^2 U' R'$	
2.	$U^2 R F' R' U F' R^2 U^2 F R U^2$	
3.	$R' U' R U R' U' F U^2 R U' F$	
4.	$U' R' F' U' F' R U R' U R^2 U^2$	
5.	$U' R^2 U' F' U' R^2 F U' R U^2 R'$	
Extra scrambles		
E1.	$R' U' F R U' R' U' F' R^2 U^2 F'$	
E2.	$U' R' U' R^2 U^2 R^2 F U R' U' R$	

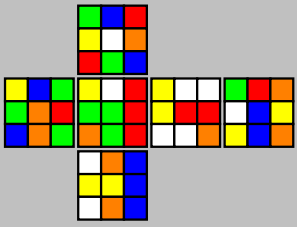
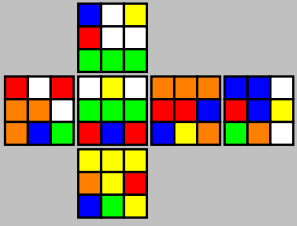
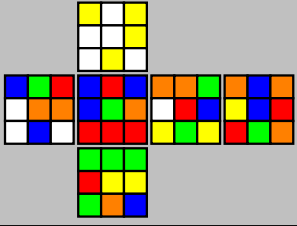
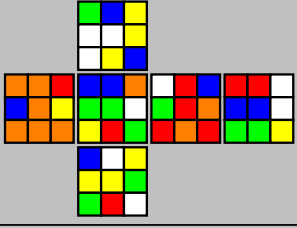
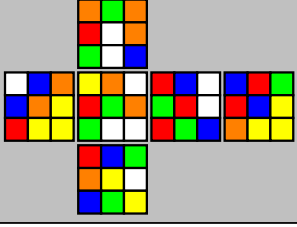
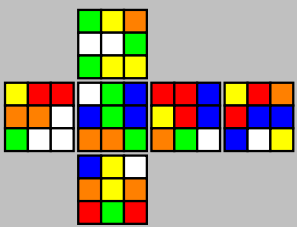
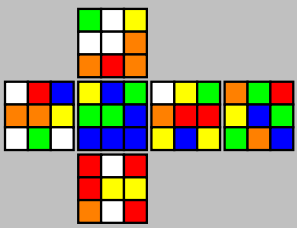


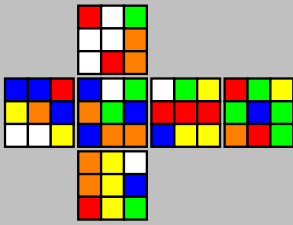
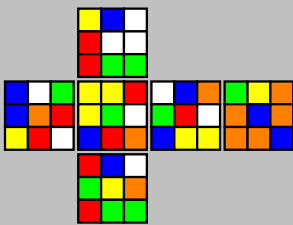
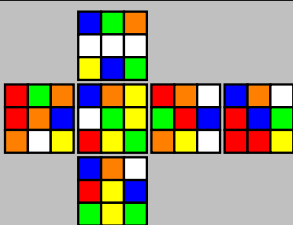
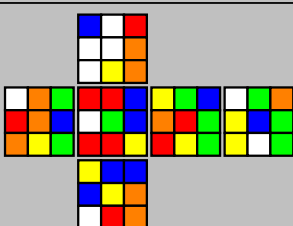
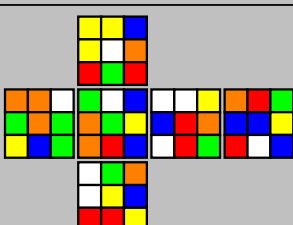
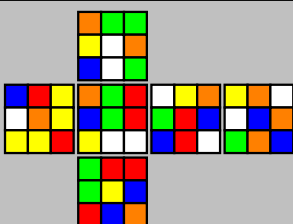
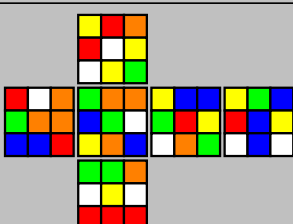
1.	$R U' F R U' R F' U R U' R^2$	
2.	$R' U^2 R U^2 R' U' F' R U^2 R F$	
3.	$R' F U' F U' R U' R U^2 F' R^2$	
4.	$R' F' R^2 U R U^2 F' R' U^2 R F'$	
5.	$U^2 R' F^2 R U R' F' U R' U' R$	
Extra scrambles		
E1.	$U^2 R^2 U' R^2 F U' F U' F R U^2$	
E2.	$R' U' R F' U^2 R U' R U' R' U'$	

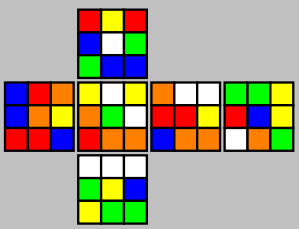
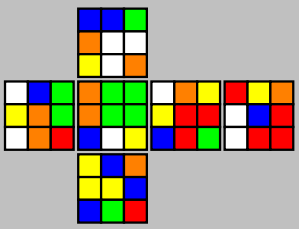
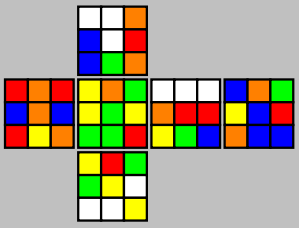
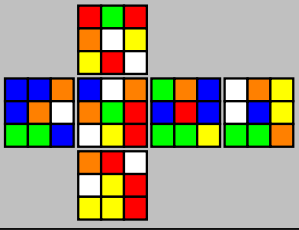
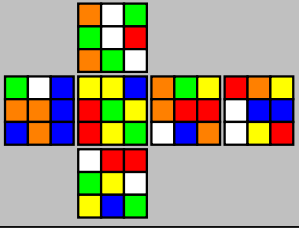
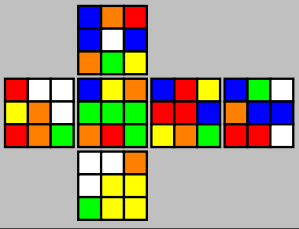
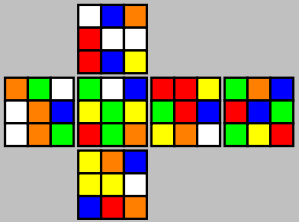
1.	$R U' R^2 U F' U' R^2 U' R^2 U^2 R$	
2.	$U' R U' R' U R^2 U^2 F R F' R^2$	
3.	$R' U^2 F U' R U F' U' R^2 U^2 R'$	
4.	$R' F U R' U^2 F R^2 U' R^2 U' R$	
5.	$U' R F R' U F R U' R U' R'$	
Extra scrambles		
E1.	$R' U^2 F^2 R U R' U^2 R U' R' F$	
E2.	$U' R' U^2 F' U' R U' R F' R^2 U$	

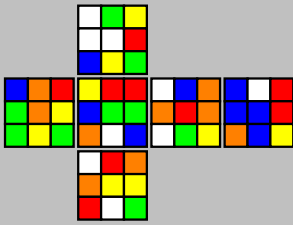
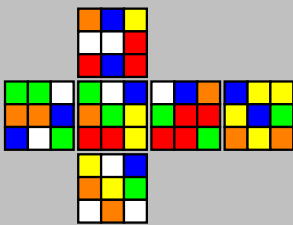
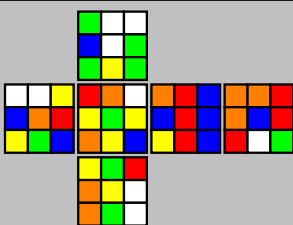
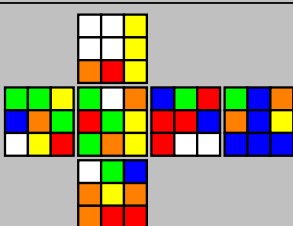
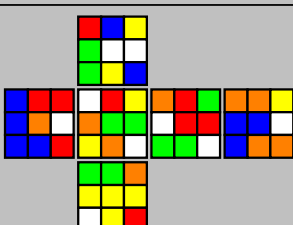
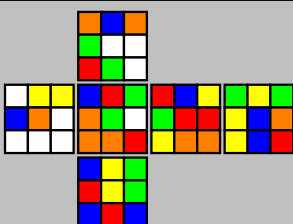
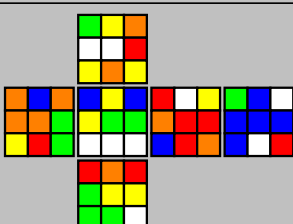
1.	$U^2 R' F U' R U^2 R U' F' U' F$	
2.	$U R' U' R' U' F U' R U R U'$	
3.	$R^2 F' R^2 U' R U' R' U^2 F R U'$	
4.	$U' R F' R^2 U' F' R^2 U' R^2 U' R^2$	
5.	$U^2 R F' U^2 R^2 U' R' F U' R^2 U'$	
Extra scrambles		
E1.	$R U R' U' F' U^2 R U^2 R U^2 R^2$	
E2.	$U R^2 U' F U' R U R' U F' U^2$	

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

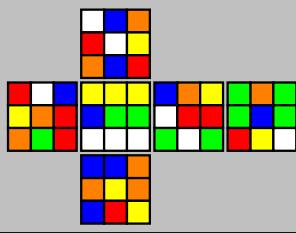
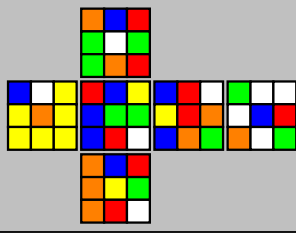
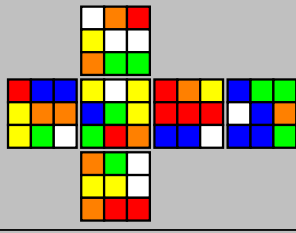
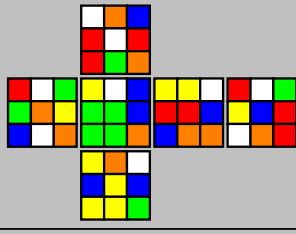
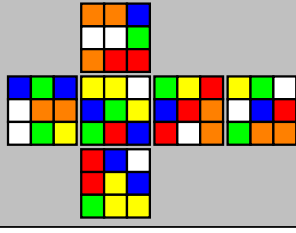
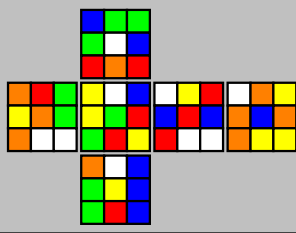
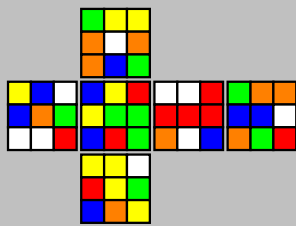
1.	R2 F' U2 B' L2 B2 F U2 F2 D2 U2 L D B2 D U2 L F U'	
2.	U' F B L' U F L' U2 D B' D2 B2 U2 L' D2 L' D2 R U2 L	
3.	U' D2 R' D R L2 B2 U2 B R2 L2 U' D2 R2 L2 B2 U2 D' R2	
4.	U' R2 D2 U R2 F2 U' F L' F' U2 F' D' F' D' F2 R' F' U'	
5.	F2 U2 B2 R2 F' D2 F' R' U L2 B' F L D' U2 L' D2 U'	
Extra scrambles	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

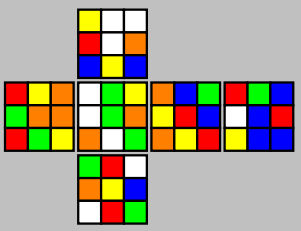
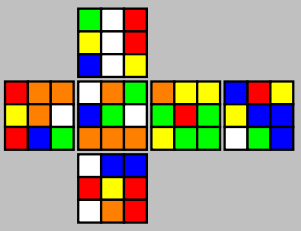
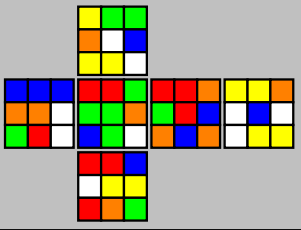
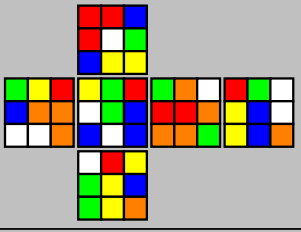
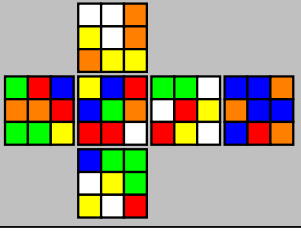
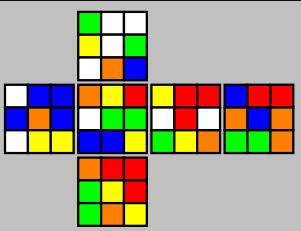
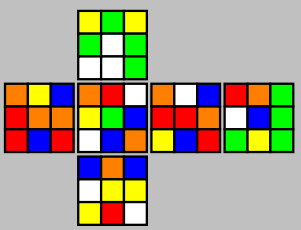
1.	$R' D2 R D2 R B2 R F2 L2 D$ $L' F L' B' D' F R F L2 U2$	
2.	$F2 U2 L2 F2 U F2 D' F2 L2 D$ $R D' B' U F2 D2 F2 L R B'$	
3.	$B R2 D2 R2 B2 D2 F2 D2 F' D2$ $B' D B R2 U L' R' U B' D2$	
4.	$U D2 R F' L D' L' D2 R2 U$ $B2 R' L2 U2 R2 U2 B2 R' D2 L$	
5.	$L' U2 R' D2 R F2 L D2 R2 F2$ $L' D R2 B' R' D2 L'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

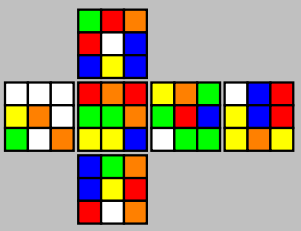
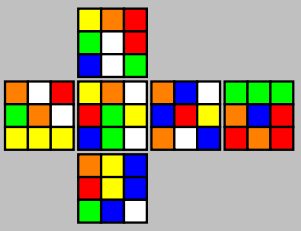
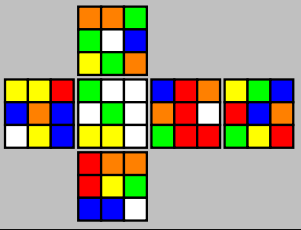
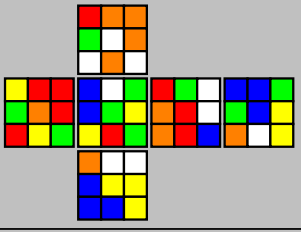
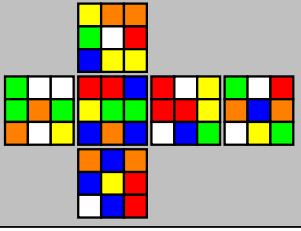
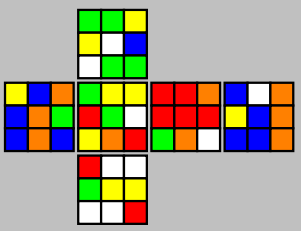
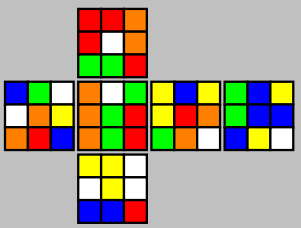
1.	D2 F2 U' F2 U' B2 D F2 L' D2 R' F D R2 F' L' F' L' F2	
2.	B2 L2 U2 L2 D' F2 D' U2 B' L R' D F2 R' B' F2 L2 D2 R	
3.	U2 L2 U' R2 U2 B2 D U2 L2 F R D' L F R2 D2 R2 D F	
4.	U2 F L2 F' U2 F D2 U2 F' U' L U L F2 L U R D' B' F'	
5.	F R L2 D' L' F' B2 D2 B' L B D2 B2 U D L2 U F2 D	
Extra scrambles		
E1.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

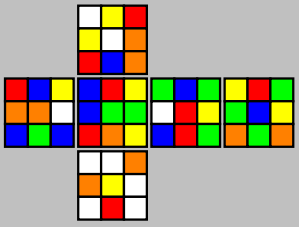
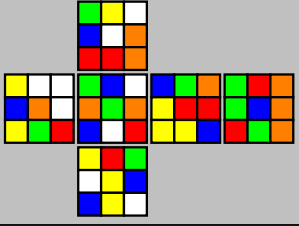
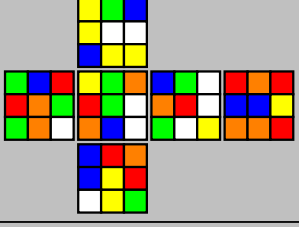
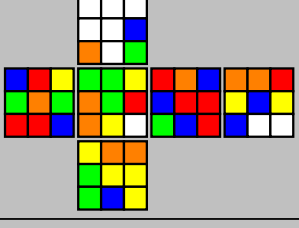
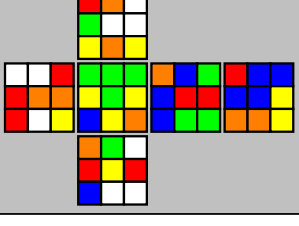
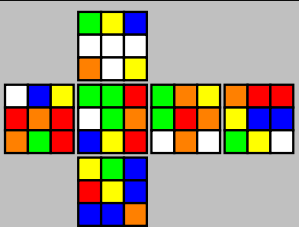
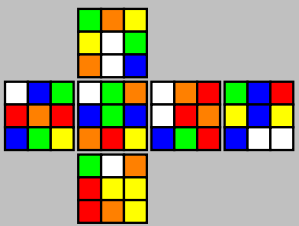
1.	<p>D2 F2 R2 U2 R D2 R2 F2 U2 R B2 D' F' U L2 R' F' L2 D' R U2</p>	
2.	<p>B' R2 B2 D R' F L F' B2 D F2 U2 D' F2 B2 R2 U L2</p>	
3.	<p>F2 D2 U' B2 U R2 U2 F2 R2 F R2 D B' D' U' L' R D'</p>	
4.	<p>L R2 B2 R' D2 B2 R' U R D2 F' R' D2 L2 F L2 D' B'</p>	
5.	<p>R2 U2 F2 R D2 L2 R2 D' B2 L B R2 B' F2 D F2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

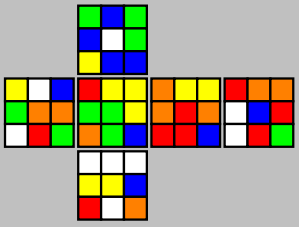
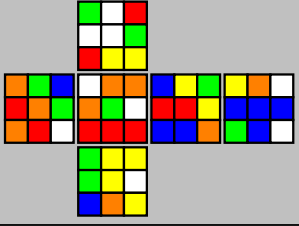
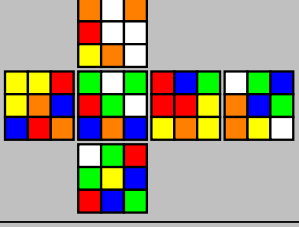
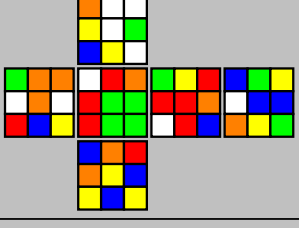
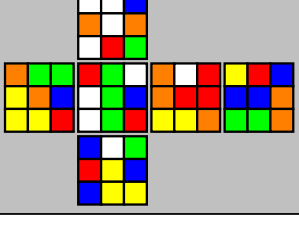
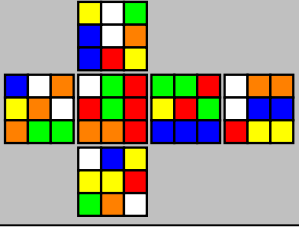
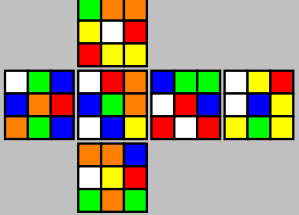


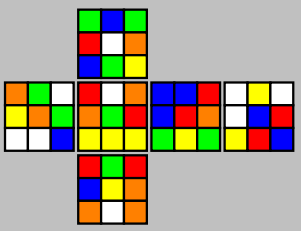
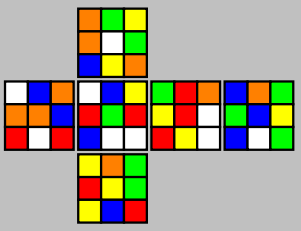
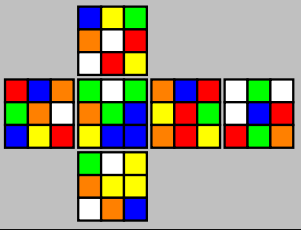
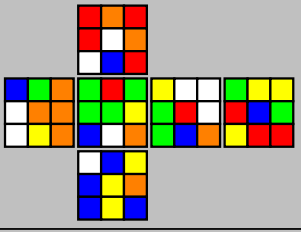
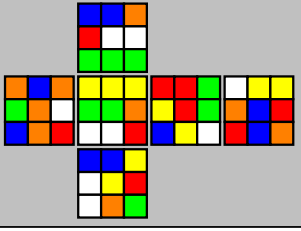
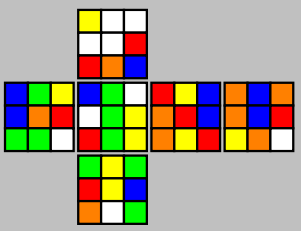
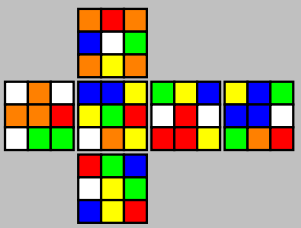
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2.	U2 D2 B D2 R2 L2 U' L F R D2 B2 D2 R2 F R2 B' R2 L2 D2	
3.	D R2 F2 U2 L2 B2 U2 R2 U' R2 U B' F' R' U R' F R' U	
4.	U' R2 U B2 L2 D B2 U2 F2 L2 D' L B F R' D' F2 L D' U2 F2	
5.	R2 U2 B2 R2 B' D2 L2 R2 B2 F D2 L D B' L U L U2 R' B2 L'	
Extra scrambles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

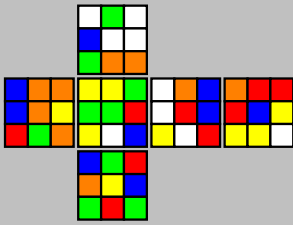
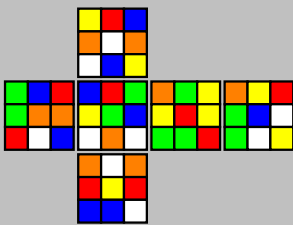
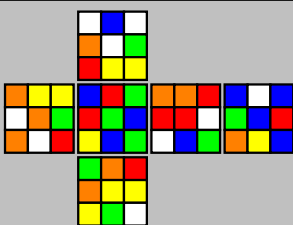
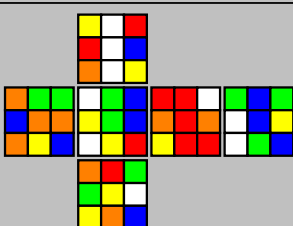
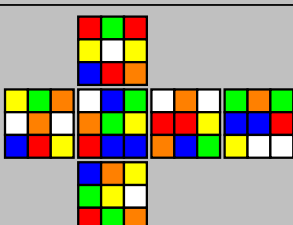
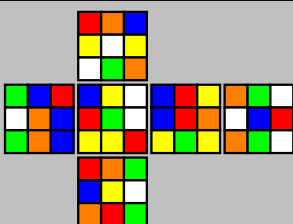
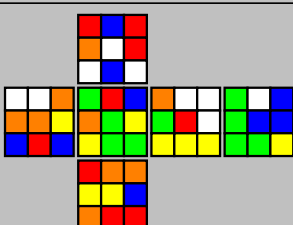
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2.	U' L2 U L2 D B2 D' F2 U' F D F2 D F L2 D F' R D'	
3.	U2 L2 D' U' B2 L2 D F2 R2 F2 L U' L2 F R U B2 U B R2	
4.	L2 R' B2 L' R2 B2 D2 B' R B L2 D' F D' L F2 L	
5.	B U2 L2 U2 F' U2 F U2 L R2 U' F L R2 U' F2 R' B' D2	
Extra scrambles		
E1.	L2 D2 R' D2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

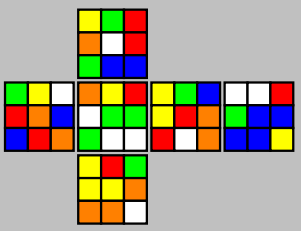
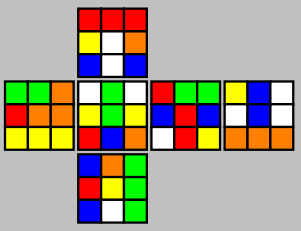
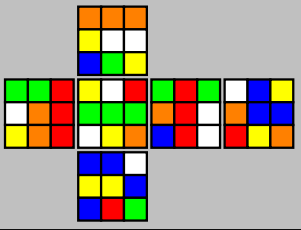
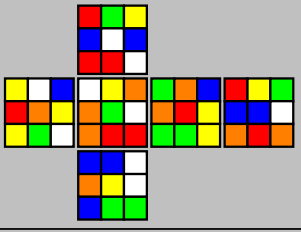
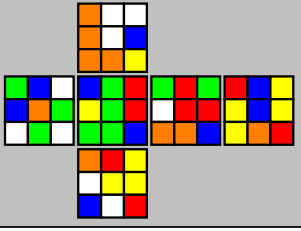
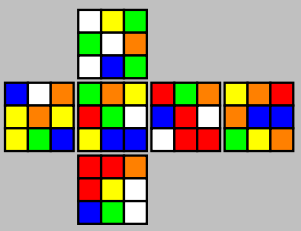
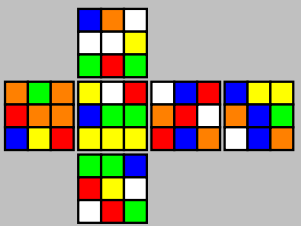
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2.	D R2 B2 U' B2 D' B2 R F2 L D R2 D F' U B D' R'	
3.	D B2 D2 B2 U' F2 L2 U2 R2 D F2 L F' U' B' L' F2 L2 R B2 D	
4.	L' R2 U2 L2 R B2 R B' L F' L' D2 F' U B2 L' F2	
5.	F D2 B D' L' U R' U2 F D2 B R L U2 F2 L B2	
Extra scrambles		
E1.	L2 F L F' R2 U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

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

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

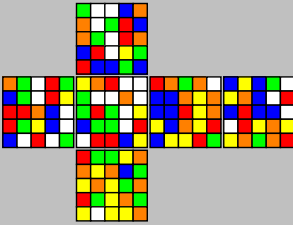
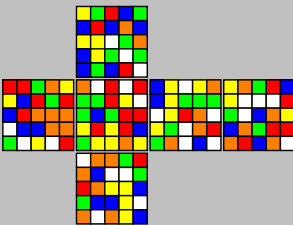
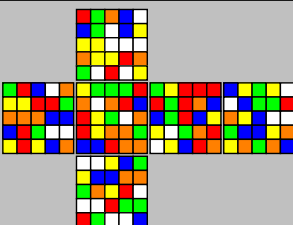
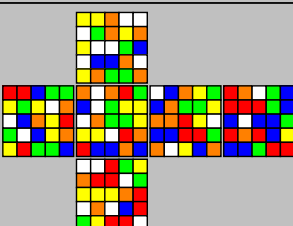
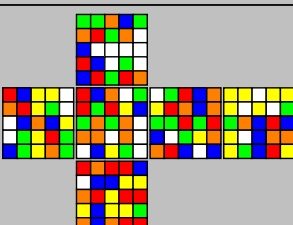
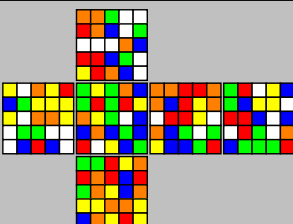
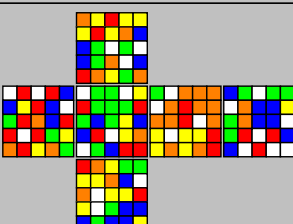
1.	B U2 F L2 B2 U2 F' D2 B U' B F D2 R' D L' B D2 U' L'	
2.	R2 B2 R2 F' R2 B L2 D U R' F U' B' L D B' L2 U	
3.	U2 F2 L' B2 R B2 U2 L' U' F U' R' D2 R U B R U F'	
4.	F2 U2 L2 B' R2 F2 R2 D2 F' D' B U R D2 L F U R B L	
5.	B' F R2 B2 L2 F2 U2 L' B2 D B2 L U' F U' R' U' F	
Extra scrambles		
E1.	R2 D' B2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

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

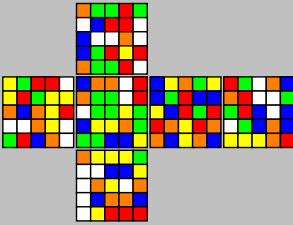
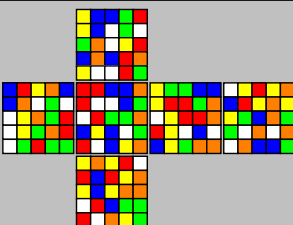
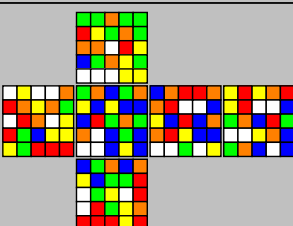
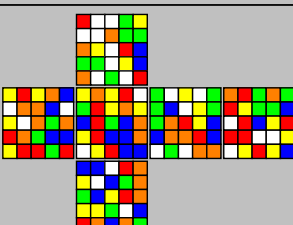
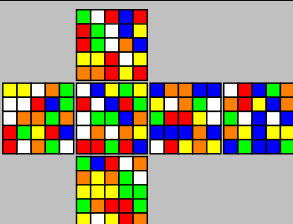
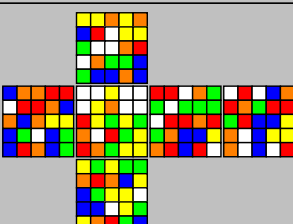
1.	R F2 D B L F' R' F' U2 F' U F2 D2 L2 D2 F2 D2 B D2 F'	
2.	D B2 R2 U' L2 F2 L2 D2 B2 L' U2 B' R' U' R' D B R' D L2	
3.	D L2 D B2 L' F' U' L' U L D2 L2 D2 F B2 D2 L2 F2 B	
4.	R' F B D L' U F2 B2 D' F' U2 R2 B2 U' R2 D' R2 D2	
5.	L2 D2 U F2 U L2 U2 R2 B L2 U2 R F2 D' L2 F D2 B2 D	
Extra scrambles		
E1.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



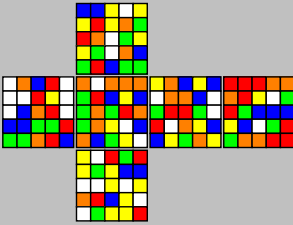
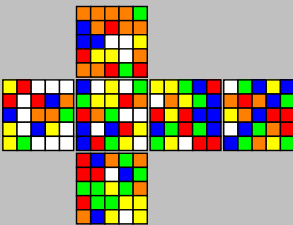
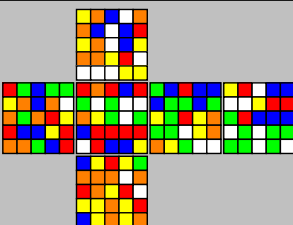
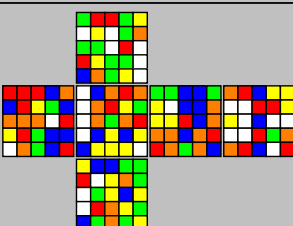
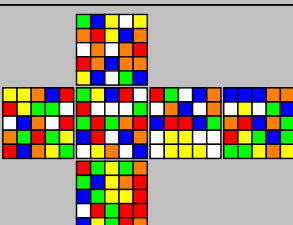
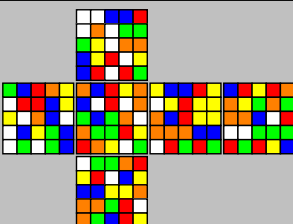
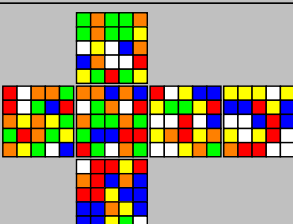
5x5x5 Cube Round 1 Group A  
Scrambles for Kjeller Open 2017

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

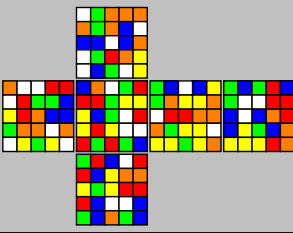
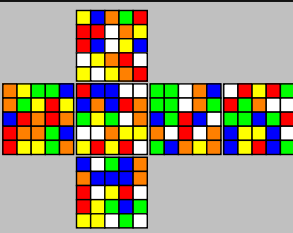
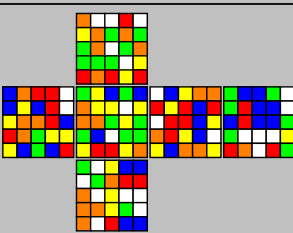
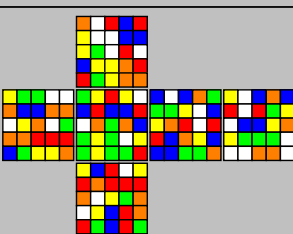
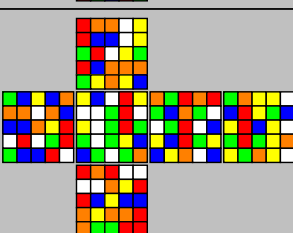
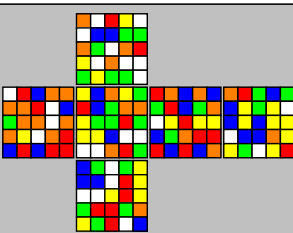
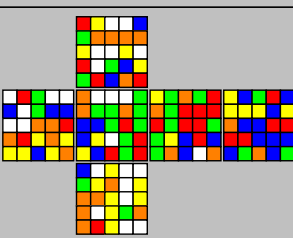
5x5x5 Cube Round 1 Group B  
Scrambles for Kjeller Open 2017

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

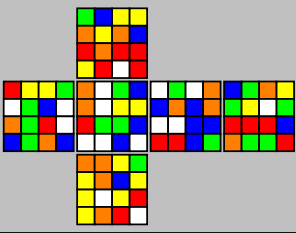
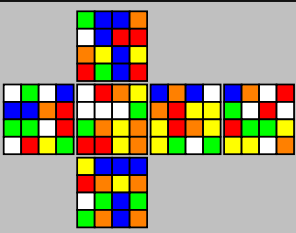
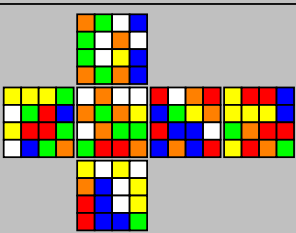
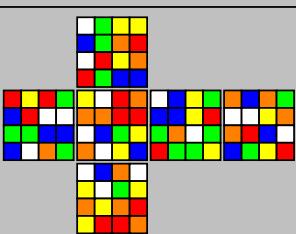
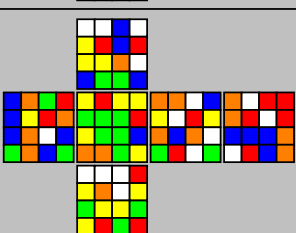
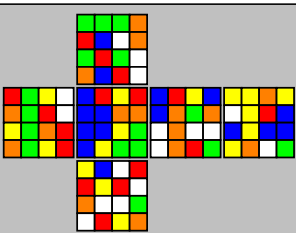
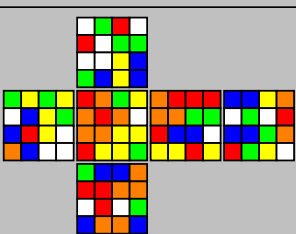
5x5x5 Cube Round 1 Group C  
Scrambles for Kjeller Open 2017

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

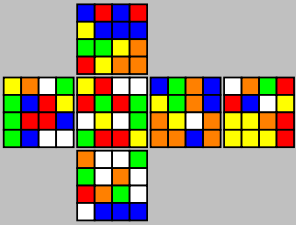
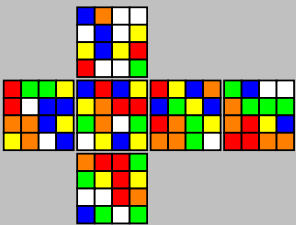
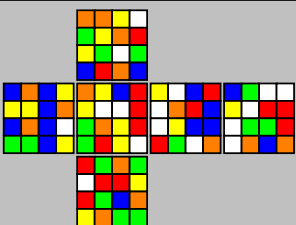
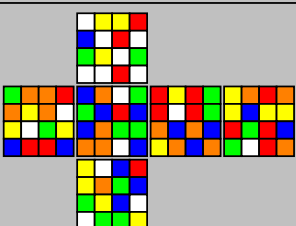
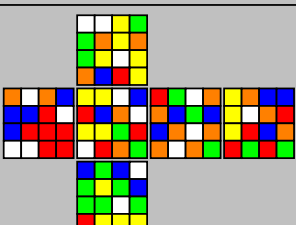
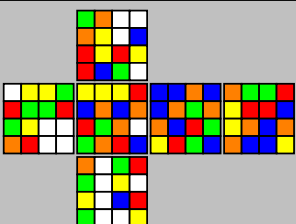
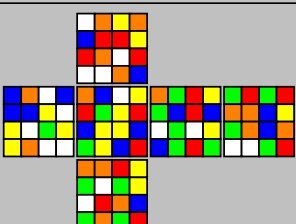
5x5x5 Cube Round 1 Group D  
Scrambles for Kjeller Open 2017

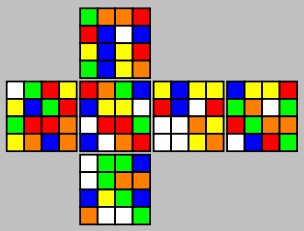
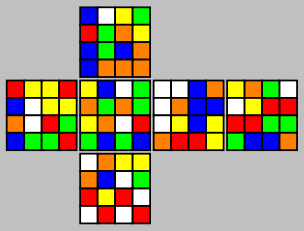
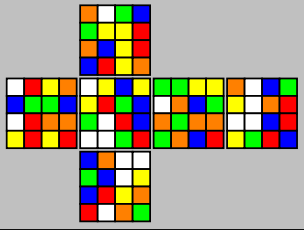
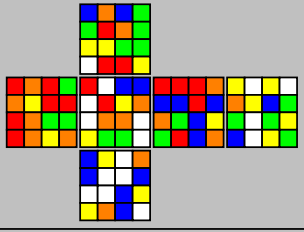
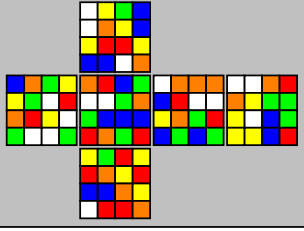
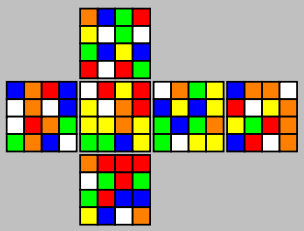
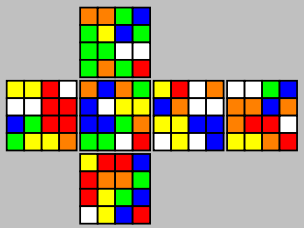
1.	<p>Lw2 R' Dw' Lw' B' Bw2 Lw' F2 Lw Uw2 Fw2 Uw'                      Bw Fw' Dw2 Bw' Dw' D' R2 Rw' Lw Fw2 L' U'                      Lw2 Uw2 Fw Rw2 B Bw F' Dw2 Uw2 U2 R2 Uw2                      Bw' Rw2 B' D2 Bw' Rw F' R' Rw' L' B2 Uw                      F Uw' R' F2 Dw Bw F' R Dw2 L' U2 L</p>	
2.	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

4x4x4 Cube Round 1 Group A  
Scrambles for Kjeller Open 2017

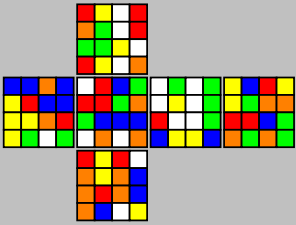
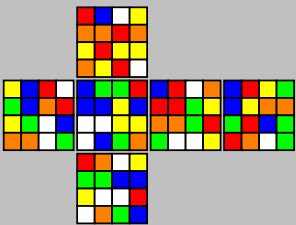
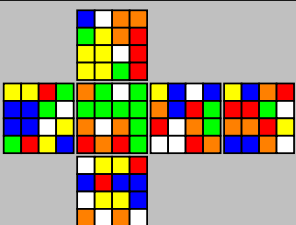
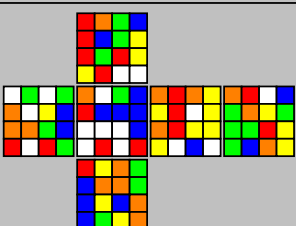
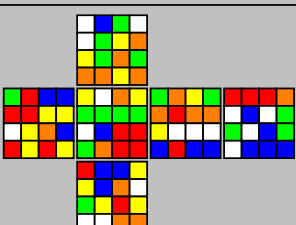
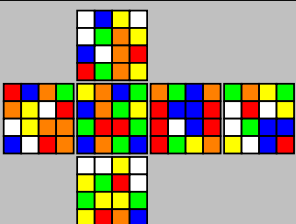
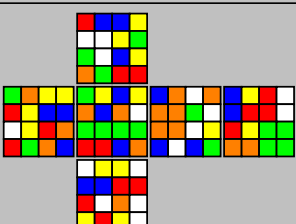
1.	<p>L D2 R' U2 F2 R' D2 B2 R2 D'                      L' F' U2 D' R F' R2 B2 Rw2 U2                      Fw2 L' B2 Rw2 Uw2 B' R' D2 Fw2 B                      Uw F' B L2 Fw2 R2 Rw U' Rw2 B                      U Fw' L2</p>	
2.	<p>R' U R2 B D2 R' L2 F D L2                      B' D2 L2 D B2 U' R2 B2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

4x4x4 Cube Round 1 Group B  
Scrambles for Kjeller Open 2017

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

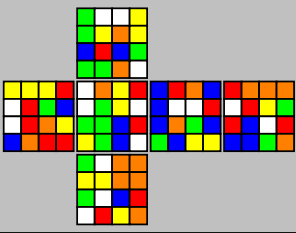
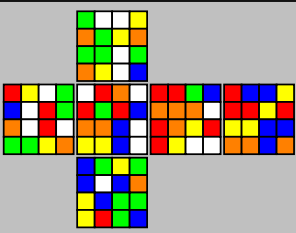
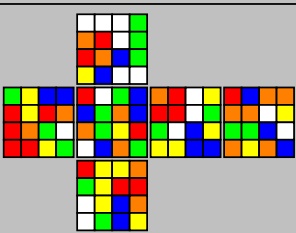
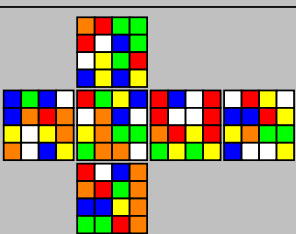
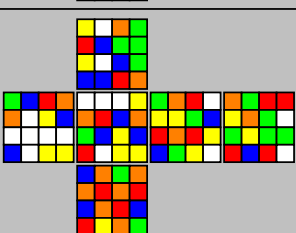
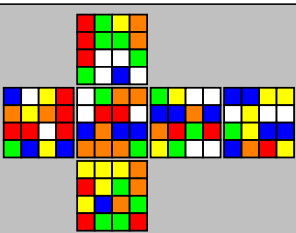
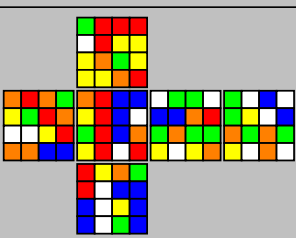
1.	<p>F' L2 D2 F2 B D2 F' L2 R2 F'                      U' R D' B U L F' U' B' D'                      B Rw2 Uw2 R2 U' L2 B' Rw2 U2 Rw2                      Uw2 F2 B' Rw B' L D' F2 Uw' B2                      Uw Rw Uw' U' F2 R'</p>	
2.	<p>F' B' D2 L2 D F' L F B R                      D2 U2 F' L2 F' B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

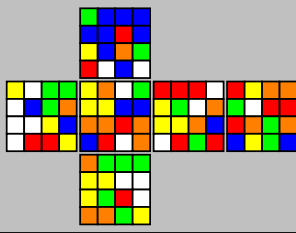
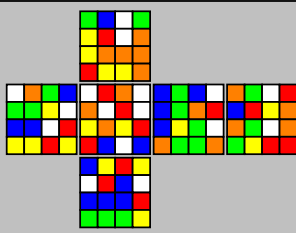
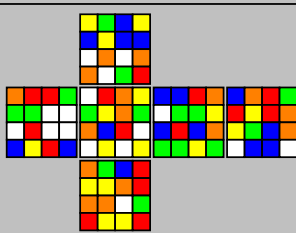
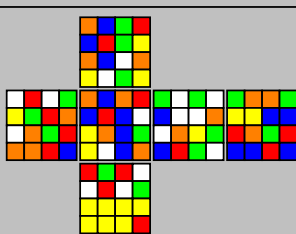
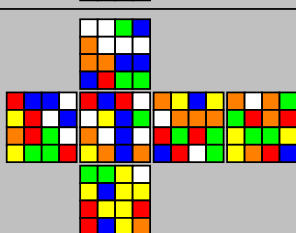
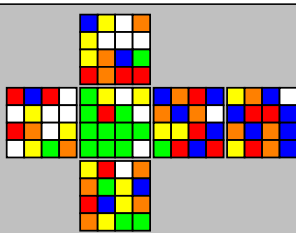
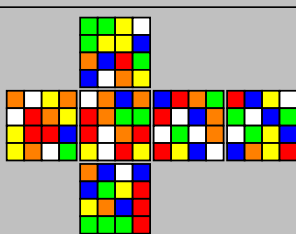
4x4x4 Cube Round 1 Group D  
Scrambles for Kjeller Open 2017

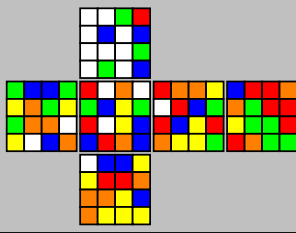
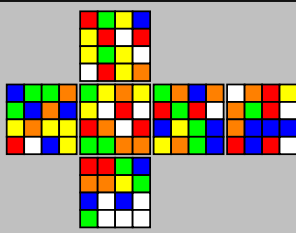
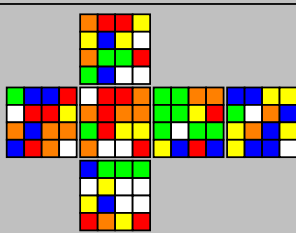
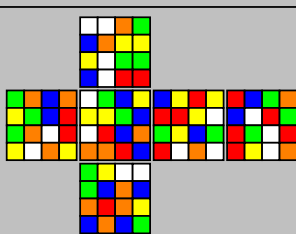
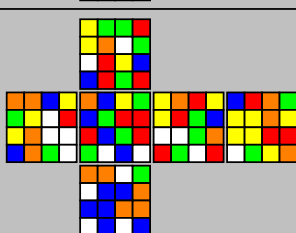
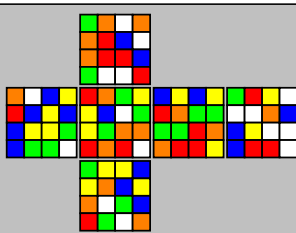
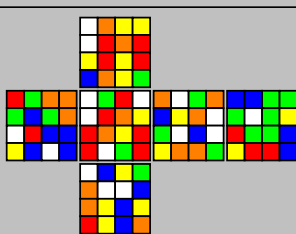
1.	<p>D2 R2 F2 D2 F2 R B2 L2 R U  D F' U B L' F' L' U2 L' Fw2  R2 U2 L Fw2 D B2 R Fw2 D U'  B2 Fw Uw2 U' L' D B' D Fw' Rw  U' Rw2 Fw' Uw'</p>	
2.	<p>L2 B2 D' F2 U2 B2 D L2 B2 F2  L B F D' L' F' L' U R2 D2  F2 Rw2 Fw2 R' U' F2 Uw2 L' D' F2  D' Fw2 U Fw' Rw2 L Fw2 B' Uw Fw'  R' Uw2 Rw2 Uw' L'</p>	
3.	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



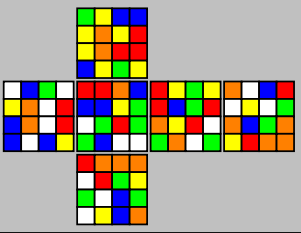
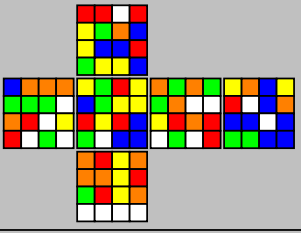
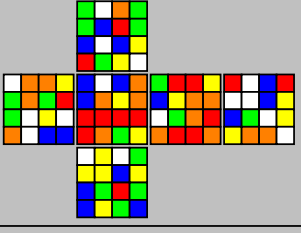
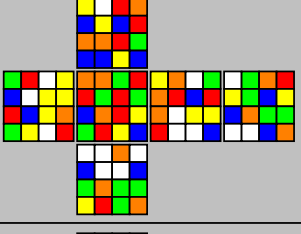
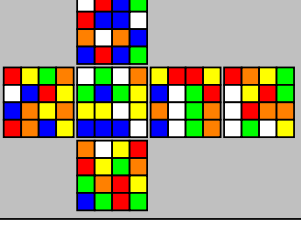
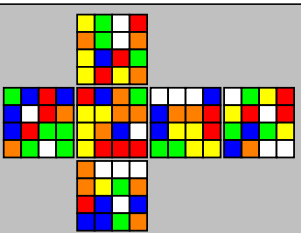
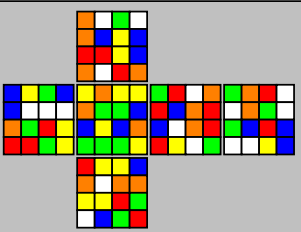
4x4x4 Cube Round 2 Group A  
Scrambles for Kjeller Open 2017

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

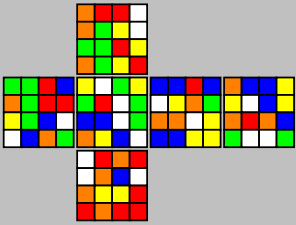
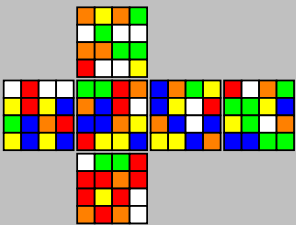
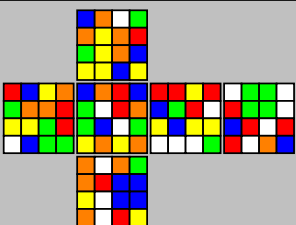
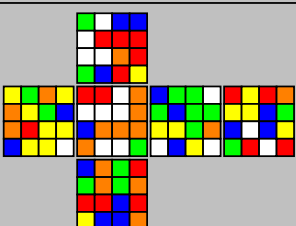
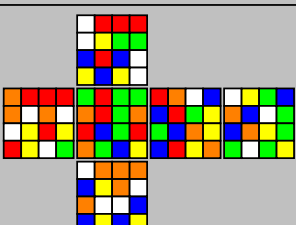
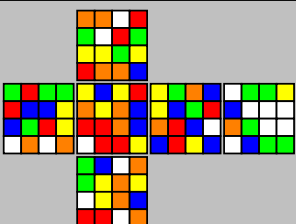
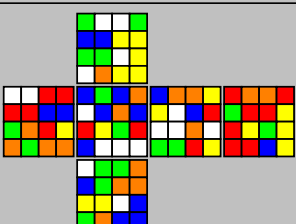
1.	<p>U2 F2 U' F2 R2 U' F2 L2 F2 L2                      F' R' B' L' U2 B R2 U' L U2                      Uw2 Rw2 B' R' Uw2 R B' Uw2 D2 F                      B2 L2 B2 Uw F' D' L' Uw' U2 Rw'                      Uw' Rw2 R2 L' Fw' D2</p>	
2.	<p>L2 U2 L2 B2 U B2 L2 U R2 F2                      R' B R2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

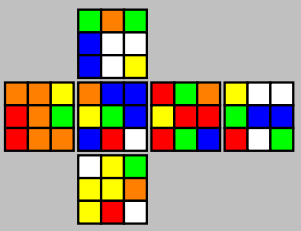
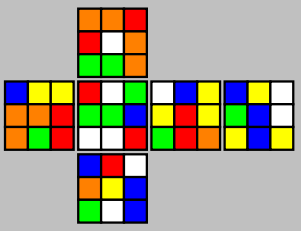
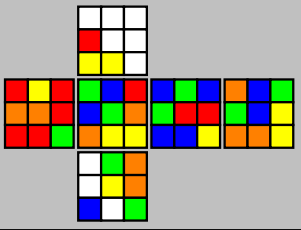
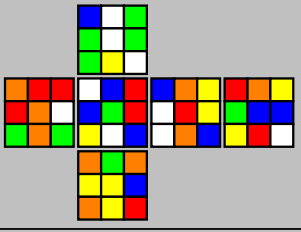
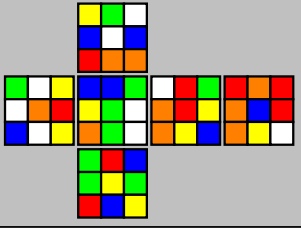
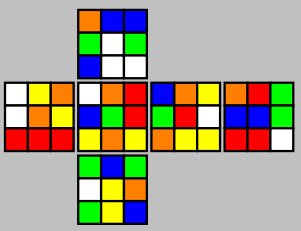
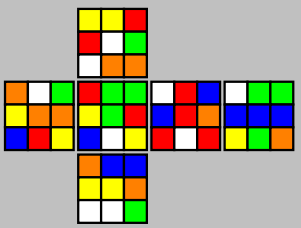
1.	<p>R D2 B' D' R' D2 L U' D2 B  R B2 L B2 R2 U2 L2 U2 L2 Fw2  U2 L D' Fw2 F2 L' Fw2 L2 Uw2 D  Rw2 Fw R U D2 B2 D' Uw' R Fw  Uw2 D' R F</p>	
2.	<p>D2 B D2 U2 B' R2 B2 L2 F2 D2  U B R' F2 D B L2 U L' D'  B' Uw2 B' L Fw2 Rw2 B' R' B U2  L R' Uw2 L' Uw' U' L Uw2 R Rw'  D2 Fw' U2 D Rw'</p>	
3.	<p>F U' R'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

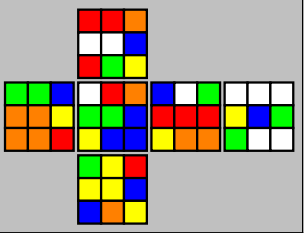
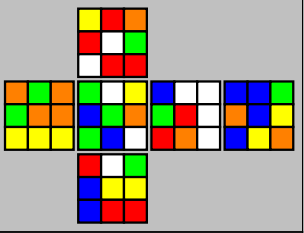
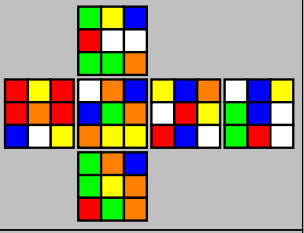
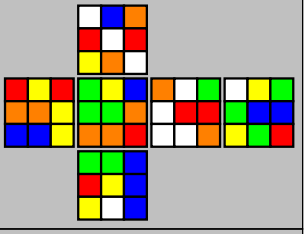
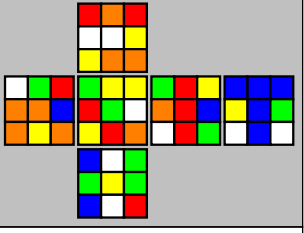
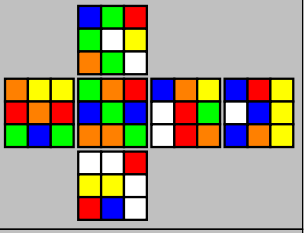
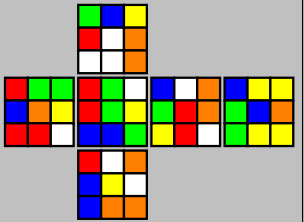
4x4x4 Cube Round 2 Group D  
Scrambles for Kjeller Open 2017

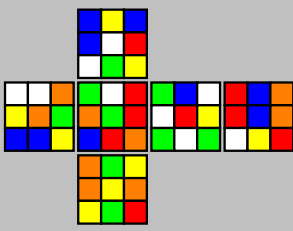
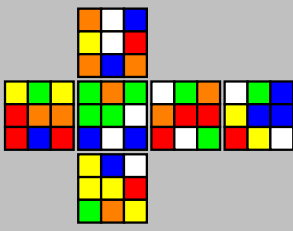
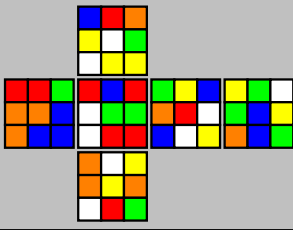
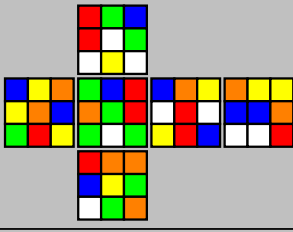
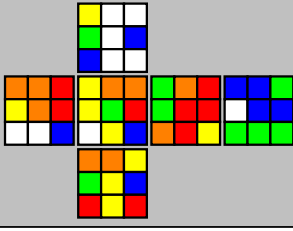
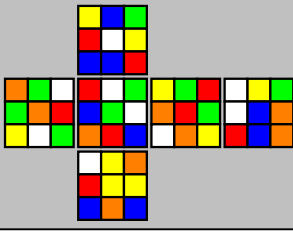
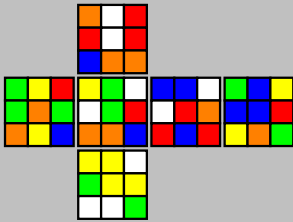
1.	<p>D' R2 D L2 R' B' D2 F U' L'</p> <p>D B2 R' F2 U2 R2 D2 L2 B2 R'</p> <p>Fw2 U' F Rw2 Fw2 F Rw2 R2 U2 F</p> <p>D2 B2 Rw L' U2 Rw D F' Uw F2</p> <p>Uw Rw Uw2 Fw F2</p>	
2.	<p>B U' D L B D' F' D L2 F</p> <p>D2 R' U2 L' B2 U2 L2 D2 R' Rw2</p> <p>D Fw2 L2 B Uw2 B R2 Uw2 Rw2 F2</p> <p>B2 R2 Rw B2 Uw2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

4x4x4 Cube Round 3  
Scrambles for Kjeller Open 2017

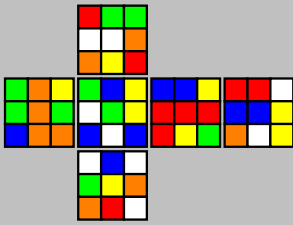
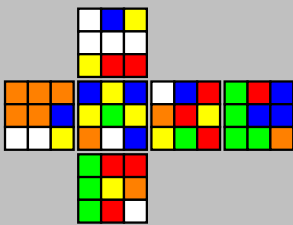
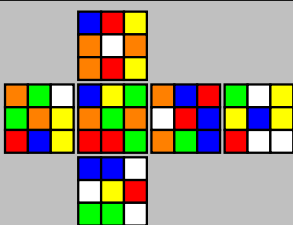
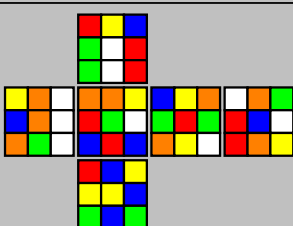
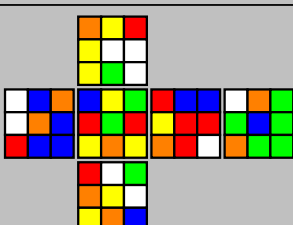
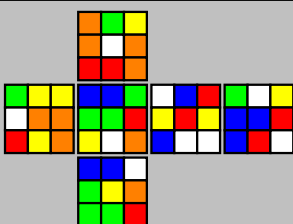
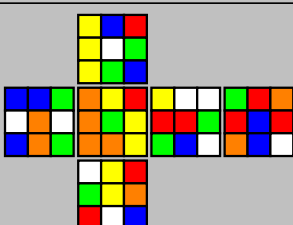
1.	<p>B' L2 B2 U2 L2 F L2 B' D U'                      L F2 L2 B' R B2 F2 R' F2 Uw2                      Rw2 B D2 L F' Rw2 B2 R2 B' R                      Uw2 R2 Uw L B2 F2 D L2 Fw L'                      Uw' R' Fw U</p>	
2.	<p>U L2 B2 D2 B2 D2 R2 F2 R2 L'                      F2 U B2 L' U' B' R' D'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

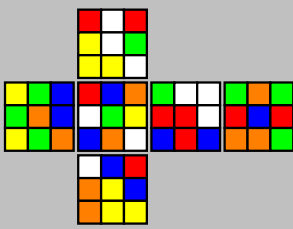
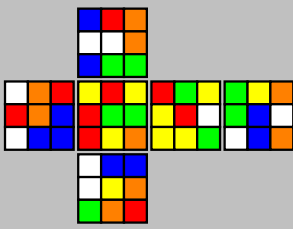
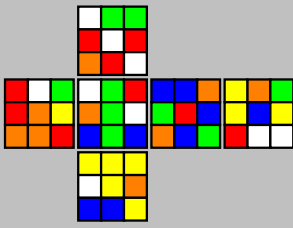
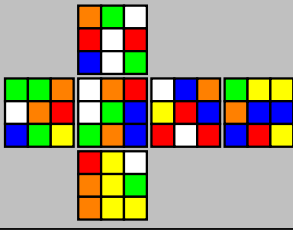
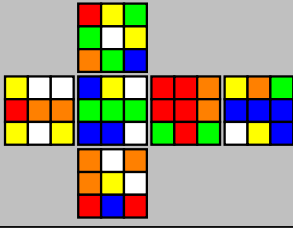
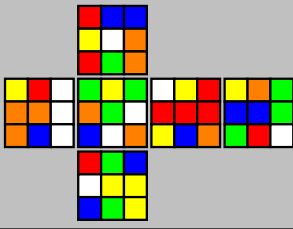
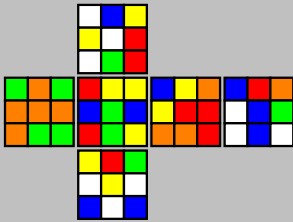
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2.	B' D' B L2 U' R F B U2 L F2 B2 U' L2 F2 R2 D' R2 D B2	
3.	B2 R2 D2 L2 U' R2 U B2 U' B2 L2 B R D2 L2 B2 R F2 D' F'	
4.	R' L2 U L U F D' F2 R2 F2 L' U' R2 D R2 F2 U2 D2	
5.	R2 U' B2 U' B2 F2 R2 U' L2 U' F L2 D L D2 R B D B2 R	
Extra scrambles		
E1.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

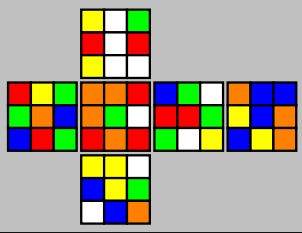
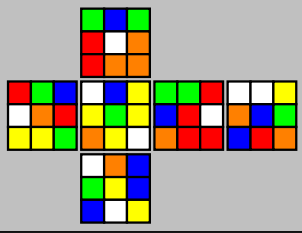
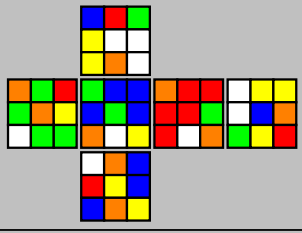
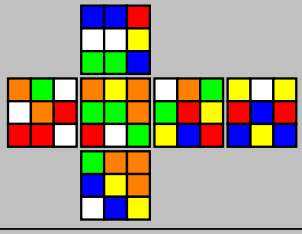
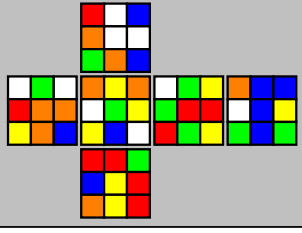
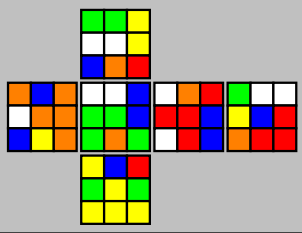
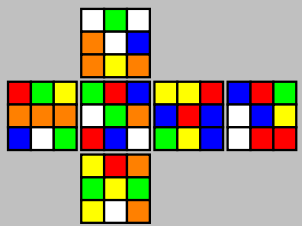
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2.	F2 U' R2 F R' U F2 B R B' L2 B2 R2 D2 L2 U2 F D2 F' L2	
3.	R2 B2 L B2 R2 U2 L2 D2 B' D U' R2 F' R2 D B2 F' L F2	
4.	L2 B2 R2 U' F2 D R2 F' R B' R' F L' F2 L2 B2 F D U2	
5.	U' L2 F2 D F2 D2 F2 U' R' U' R F2 L2 B' U2 B2 R' U2 L2	
Extra scrambles	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

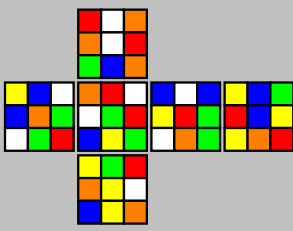
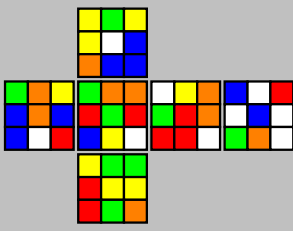
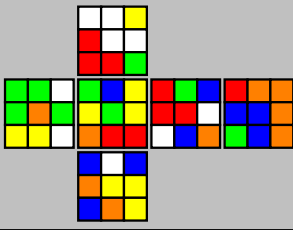
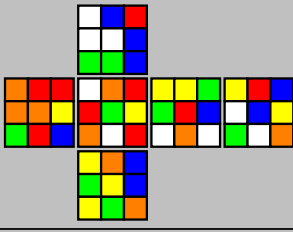
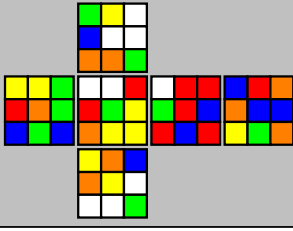
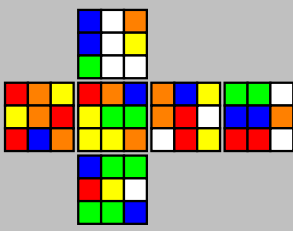
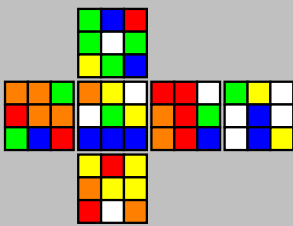
1.	B2 F2 R2 B2 D R2 D L2 F2 U' F' D U L' B' R' U2 F' D R'	
2.	U' R L2 B2 L B2 U R2 D' F L2 F2 D2 B2 R B2 R' F2 R	
3.	B D2 U2 R2 B R2 B2 L2 B' R F D2 B' R2 F' R2 D F D2	
4.	R D2 L F D' B U B R U F L2 B R2 B R2 D2 R2 B2 R2	
5.	D2 L2 D2 L2 U2 B2 U' L' R2 B' D' L U L' R D2 B2 D	
Extra scrambles		
E1.	F2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

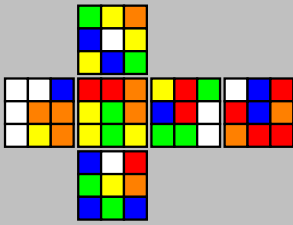
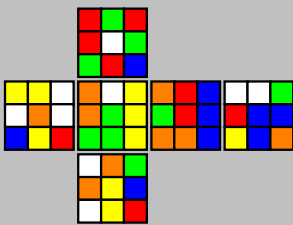
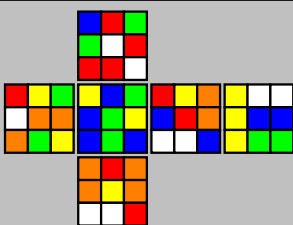
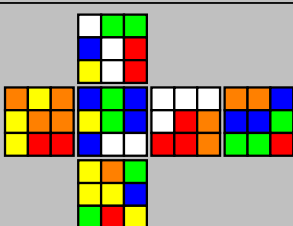
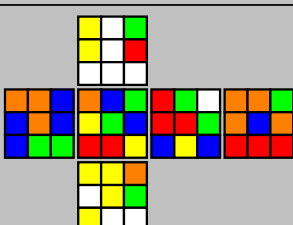
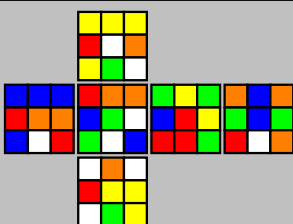
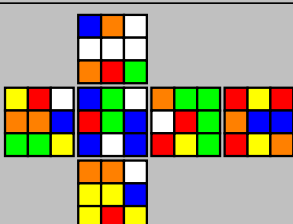


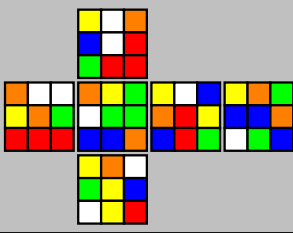
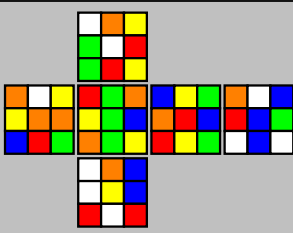
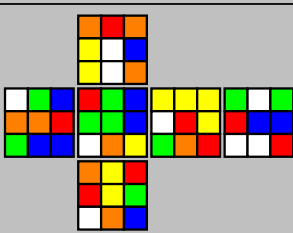
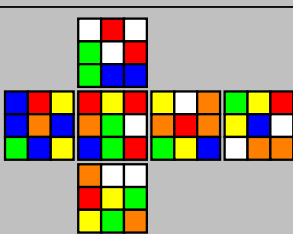
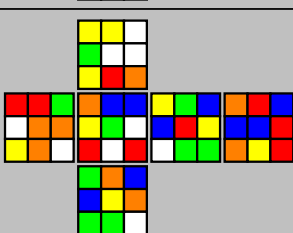
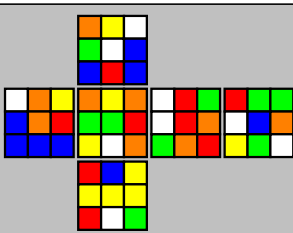
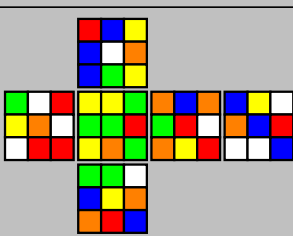
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2.	<p>D L2 D R2 D' B2 D' R2 U2 R2 B' L' B2 F R F L' F U R2</p>	
3.	<p>U' R2 B2 U B2 L2 U2 L' U L2 R D' B' L F D2 U F2 R'</p>	
4.	<p>D2 R2 B2 F2 U2 R2 F2 U' L' D' R F' R2 B L2 D' F' L2 F U2</p>	
5.	<p>R2 U2 R F D2 B U' B2 L D2 F' B2 U' B2 D' F2 B2 D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

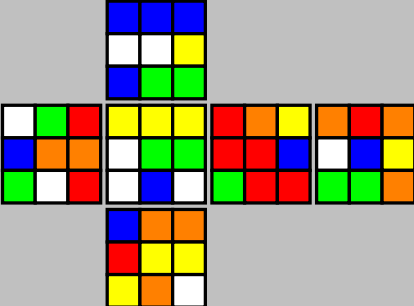
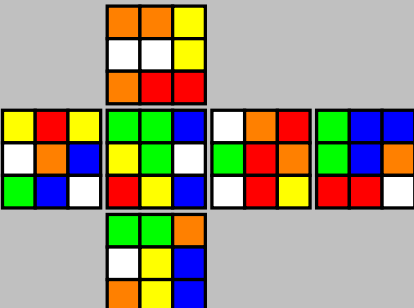
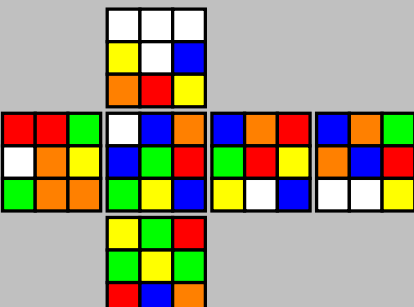
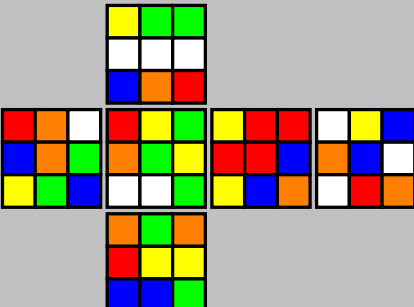
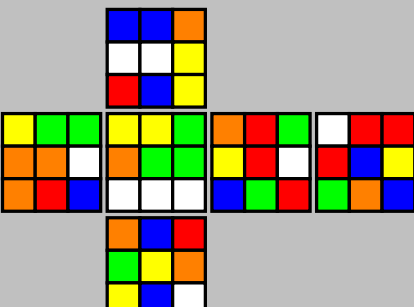
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2.	R' B2 D F R2 L' U2 R2 U L F' U2 R2 F B2 U2 L2 B D2 L2	
3.	U2 L2 U2 F D2 B F2 D2 F L' F R' B2 D R D2 U R2 F'	
4.	F2 L2 F2 R2 D2 R2 D2 F' R B L2 B2 L2 D' U' F' R F'	
5.	U F2 U2 B2 D' F2 U B2 F2 L2 R' D2 U2 B2 R2 B' L' R' U2 R	
Extra scrambles		
E1.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

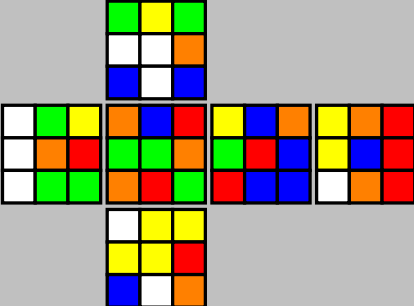
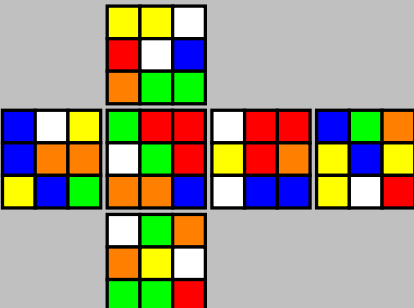
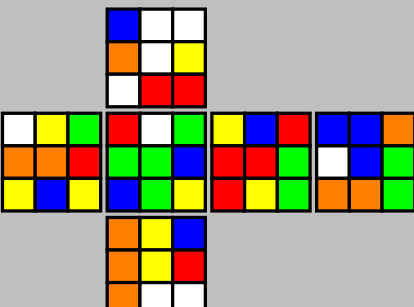
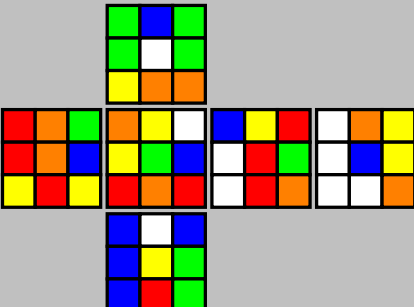
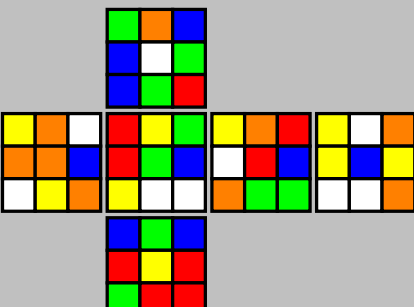
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2.	U' B2 D B2 U L2 U R2 B R D' R' U' L' U2 R' F' L B	
3.	U B' L' U' F' R' B2 R' B R U L2 D2 B2 R D2 F2 B2 L	
4.	L' U L B2 D2 L' B R' F L U' D2 R' U2 R' L' B2 R'	
5.	F2 R L' U' B' D2 F D2 R' B U' B2 D' L2 B2 U' B2 D B2 L2 U'	
Extra scrambles		
E1.	F2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

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

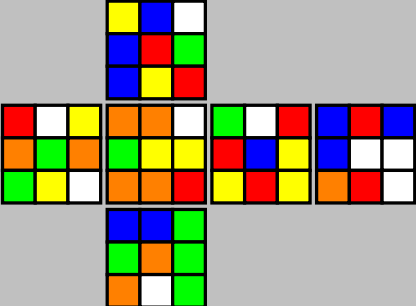
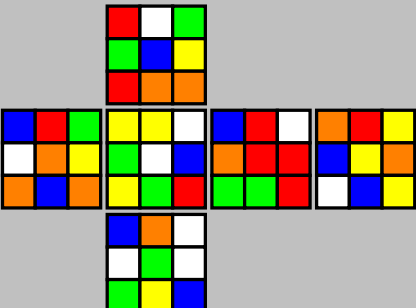
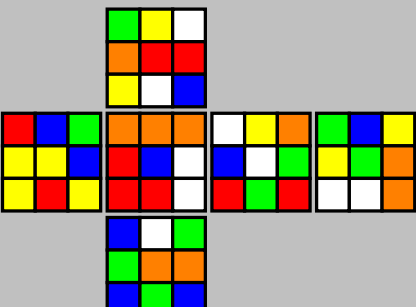
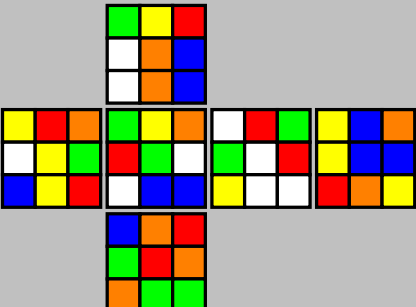
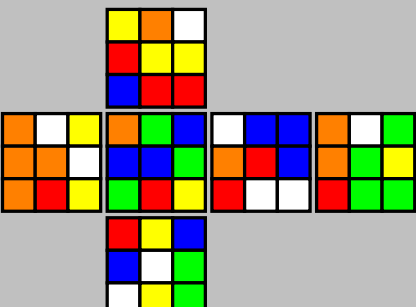
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2.	$B2 U B2 F2 L2 F2 U' L2 B' D$ $L2 B' F' U2 L F D2 B' D2 R$	
3.	$F' L2 D2 F' L2 R2 F' U2 L2 R2$ $F D' R' F2 D2 F U2 L R D2$	
4.	$B2 L B2 R' D2 U2 R2 F2 L B'$ $D' R2 D L' B2 L2 F' L'$	
5.	$L2 B' R2 B L U' L' F' D R2$ $L' F2 U2 R F2 U2 L2 U2 L'$	
Extra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

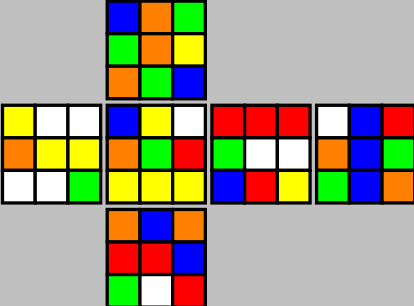
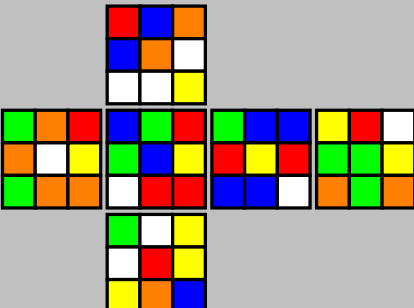
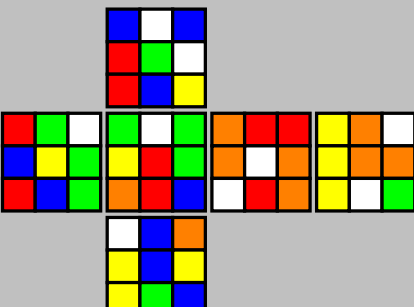
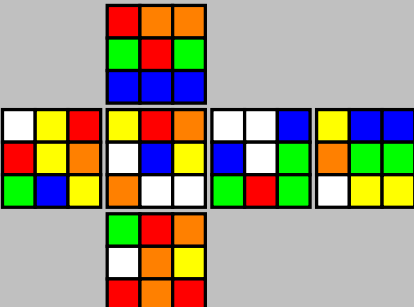
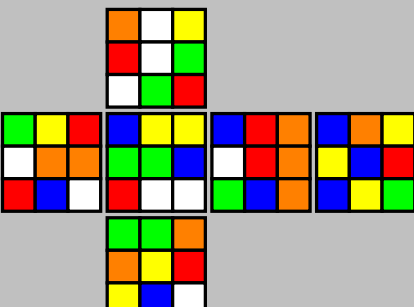
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2.	L2 D2 B D2 R2 F R2 F R' F U L' U' F L U B R U	
3.	D' U' R2 U' F2 U2 L' U2 F U B R' F' U2 L R' F' U	
4.	U B2 R F U F2 L' D' B R U2 R2 F2 U2 F R2 D2 B D2 L2	
5.	D F2 U' B2 U' L2 F2 R U B D2 F D R' U2 B2 L' D' F2	
Extra scrambles		
E1.	D' R2 U2 B2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

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

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



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

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





































































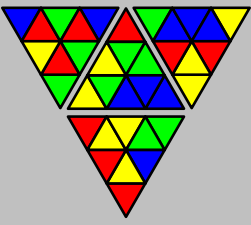
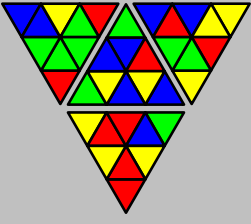
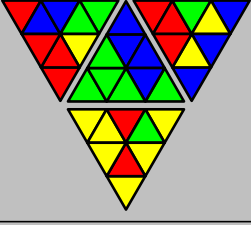
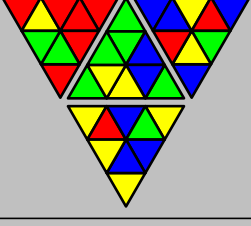
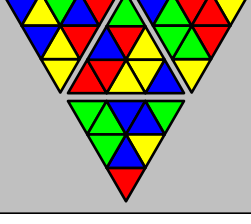
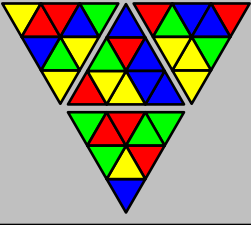
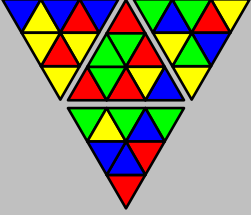


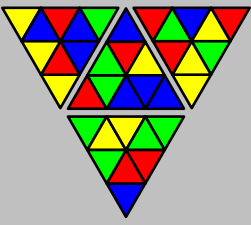
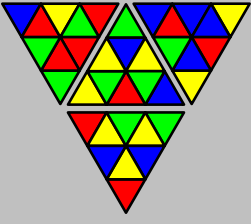
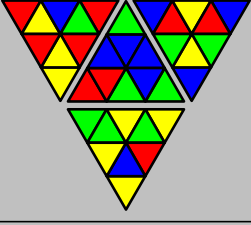
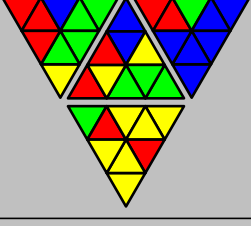
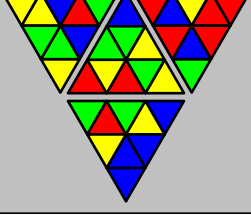
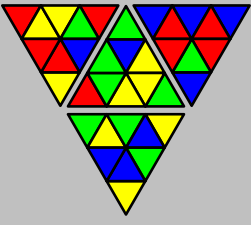
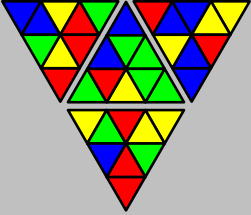


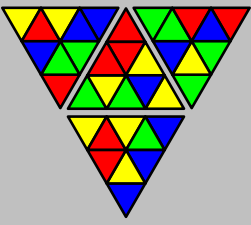
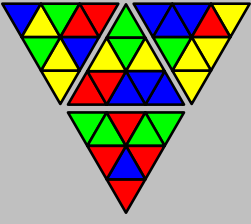
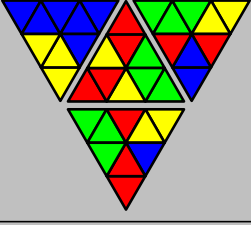
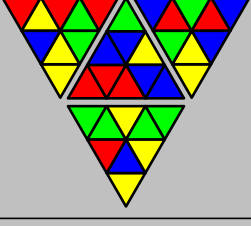
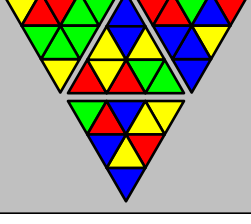
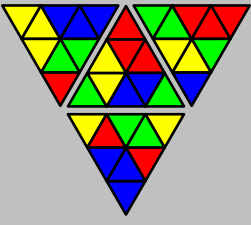
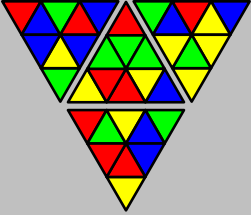




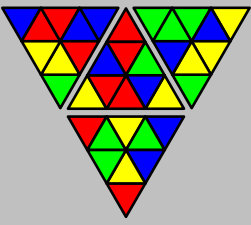
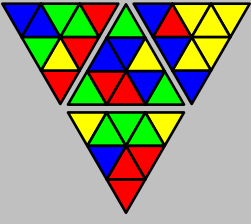
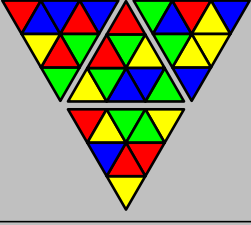
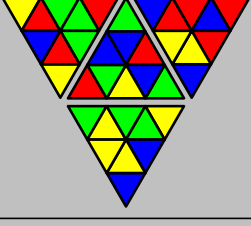
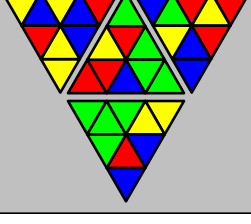
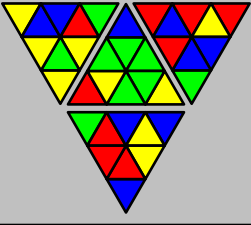
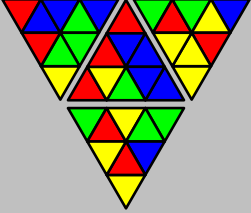


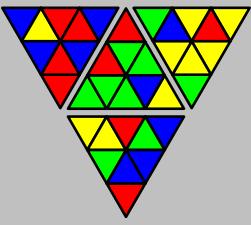
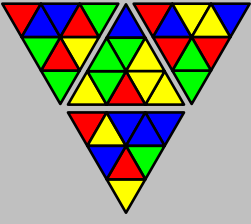
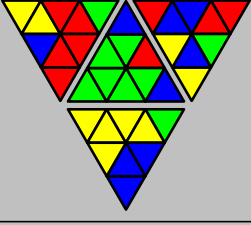
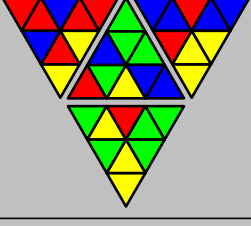
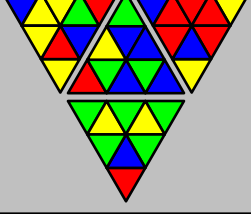
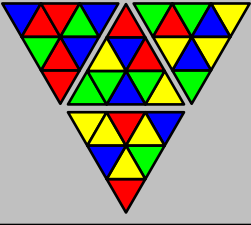
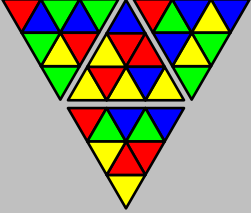
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2.	R' L' U B' L U' L' R B' R U u' l r	
3.	R' L R' L B' L U L B' L' R r b'	
4.	B' R U B' R U' B U L U' L l r b	
5.	U' B' U R' B' U' B R' B L B' u r b'	
Extra scrambles		
E1.	B L' R B' U' L B R' B' L' R' u' l' b'	
E2.	B' U B' R B R' U R B U B' u' l r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

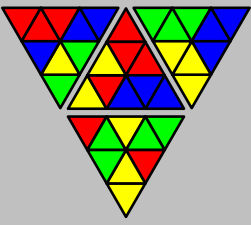
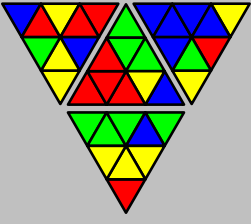
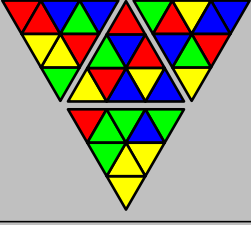
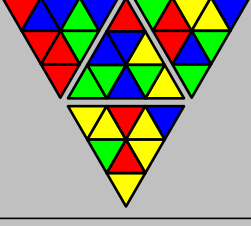
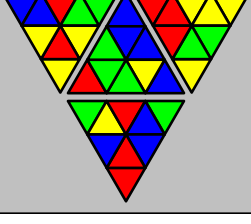
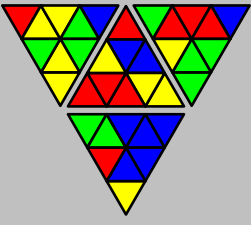
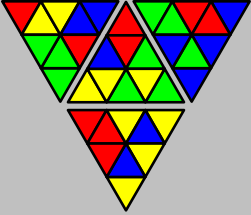
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2.	U B L R' U R' U B' L' R' U u' l' r' b	
3.	U B R' B' U R' B L R U' B u' r b	
4.	L B L U L B' L' U B' U' B l'	
5.	U L' U' B L R L' R' U' B U u l' r	
Extra scrambles		
E1.	U' L R B L' U' R B L R' L' u' l r' b	
E2.	L' B' L B' L' U' L R U R' L u l'	

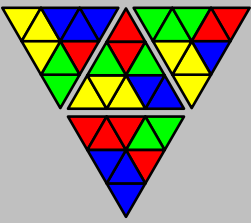
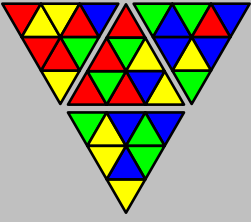
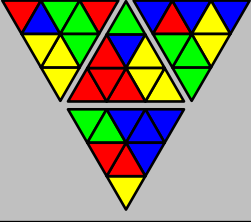
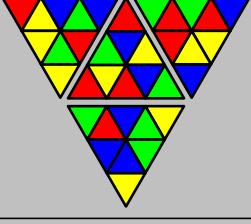
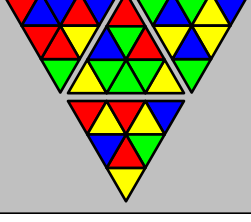
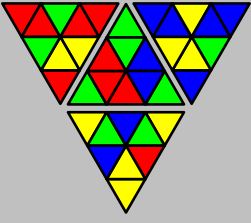
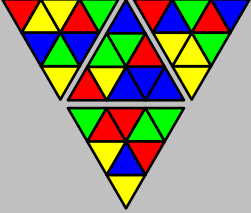
1.	R L' R U' B L R L' R B' R l r' b'	
2.	R L B' L R B' R B' L' B' R' b'	
3.	L' B' R' L B' L R' B U' B' R'	
4.	R' U R' L' U' L' R' U' R' U' B' u' b	
5.	B' R' U L B' U R' B' L U' R' l' b'	
Extra scrambles		
E1.	U R' B U' L R L' R' U' B L' l r	
E2.	L' B' R' B' U R B' R B L' U' u' l r b'	

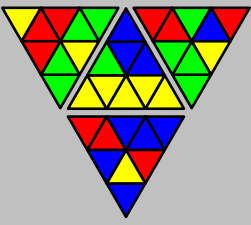
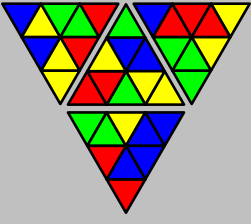
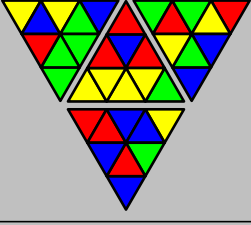
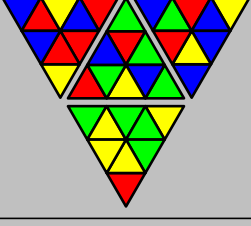
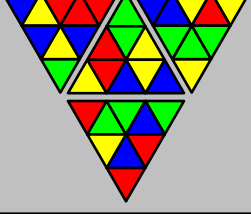
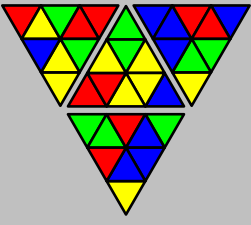
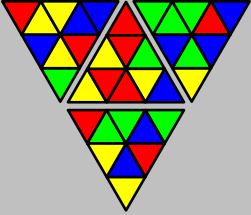


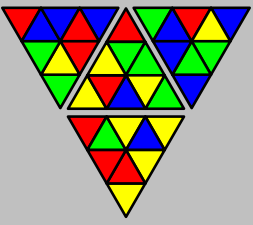
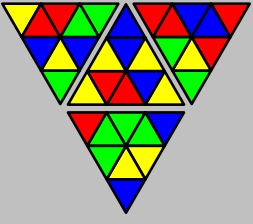
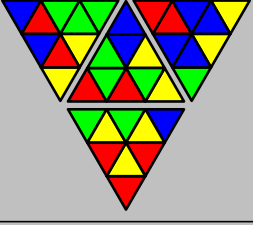
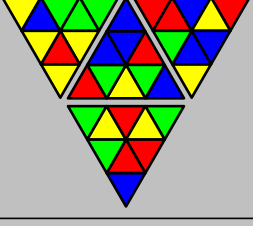
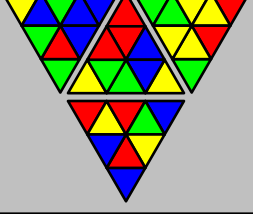
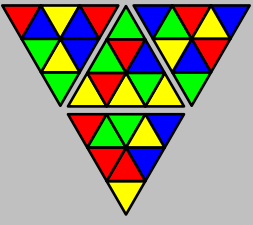
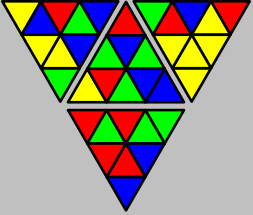
1.	B L' R U' R' U R' U' B L' B l r' b	
2.	B' R' L B' R B L' B' L R' U u' l' r	
3.	B U' L B' R' B U L R' L R u' l' r b'	
4.	R' L' B U B R B U' R' L U u' l r b'	
5.	L' B U R U' L' B R U' R B' u b	
Extra scrambles		
E1.	R' U' R' U' R B' U' R' B' R' L' u l' r b	
E2.	U B' R' U L' B L' U' B' L B' u l' b'	

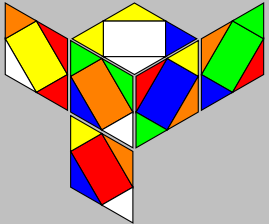
1.	U L B L R' L' R U' R' L' B u' r' b'	
2.	U' B R U' B U' R U R' B' U' u l' b'	
3.	B U' L U' L' R' U' R' B' R' B' u r'	
4.	L U B R' U' B' U L U L U l	
5.	U' R B' L R B U' R' B' R' L' u' l r' b'	
Extra scrambles		
E1.	R' B' L' U' B U' L' U' R L' U u r b	
E2.	B' L U L' B L B' U R B' R u' l r' b'	

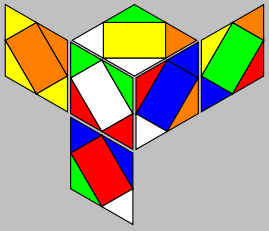
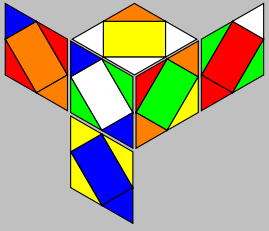
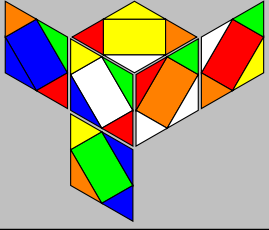
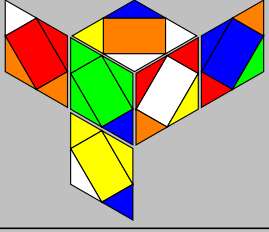
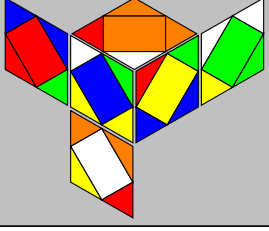
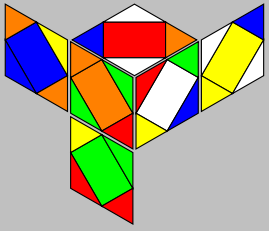
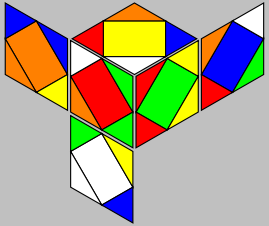
1.	L' B' U L R' B' L U' B U' B l	
2.	R' U B' L R U' L' B' R L B' r b	
3.	B' U R' U R' L' R B U' R' L' u l r	
4.	B' L B L' U R B' U' B' U R' u r b'	
5.	L B R' U R' L U B L B' U' l r	
Extra scrambles		
E1.	U B L B' R' L U R' U' L' B' u b	
E2.	B' L U' B' L R L R B R' L' r' b	

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

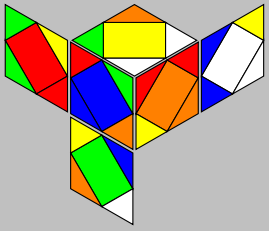
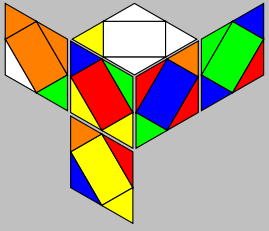
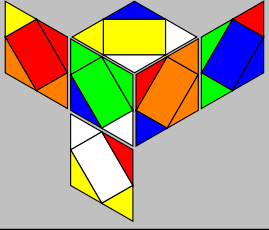
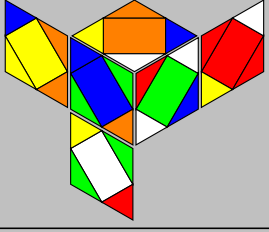
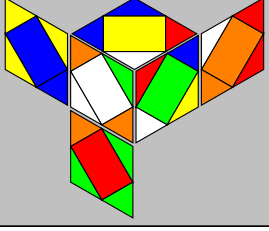
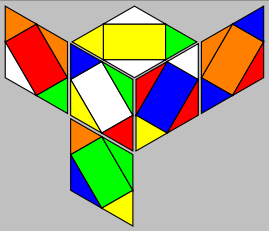
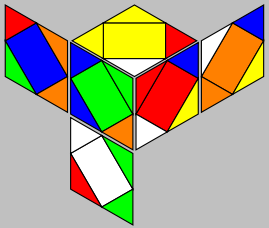
1.	R L' U R B' R' L U' B U L' b'	
2.	U' R' B L' R U L U R L B u' b'	
3.	U' L U' R' L B L U' L' U R' u r' b	
4.	L R B' U' R U' R L' B U R' u l r b	
5.	B L' U B R' U B U R' L' B' l r b'	
Extra scrambles		
E1.	L' B' R L' R B' U R B R U' r b	
E2.	B R' L' R U' R' L B L' R' L' l r b	

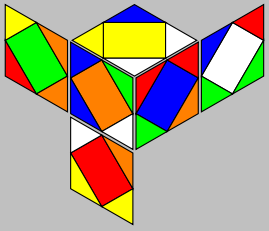
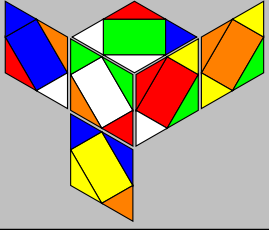
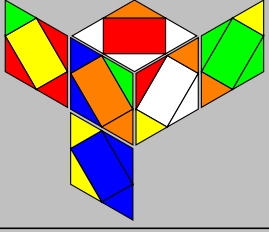
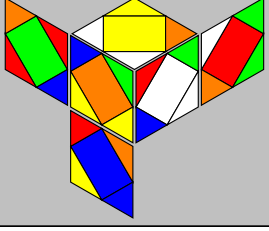
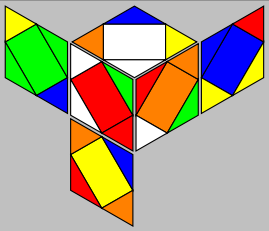
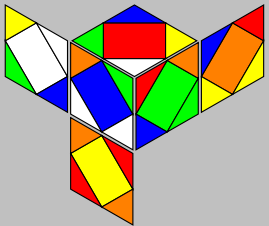
1.	L U R B' L' B' R U' R L R u' l r' b'	
2.	L R' U B' R' B R U' B' U B l r' b'	
3.	R' U' B' R U' L U' B' L' U B' l r b	
4.	R' B' L' B' R' U L' R' U L' U' l r' b	
5.	B U' B L' B U' L' B R' L' U l' r' b	
Extra scrambles		
E1.	R' L B R L B L B L U' B u l r b'	
E2.	R B R B U' R B R' U' B L u l b	

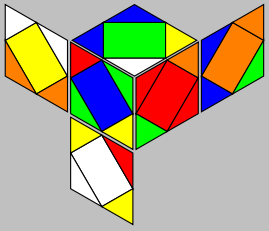
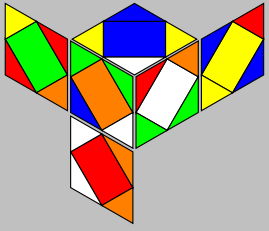
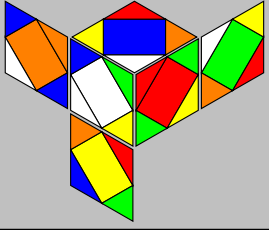
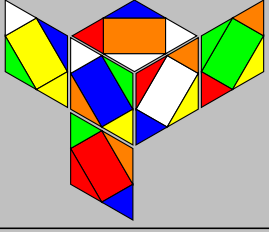
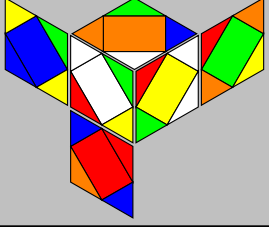
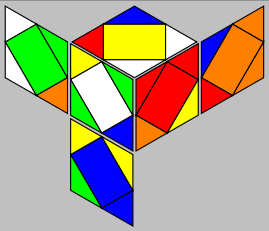
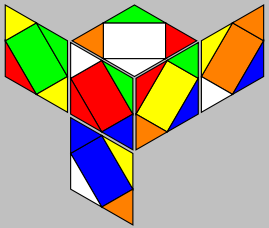
1.	L R B' L B R B U' R U L'	
2.	R L B' L U' B U' R L B' L'	
3.	L R B' U' B' U R' U' R' L U'	
4.	R B R B L' U B' U R' B' U	
5.	B L B L R L B' R' U' B' R'	
Extra scrambles		
E1.	L R U' R L R' L' B U' B L	
E2.	B U B R U R' L B L U' B'	

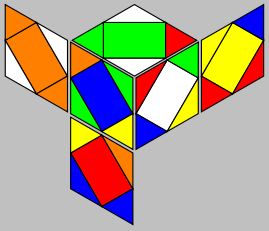
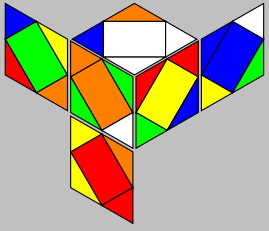
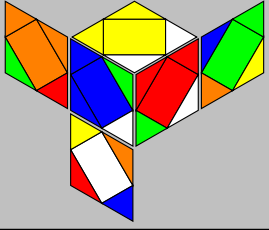
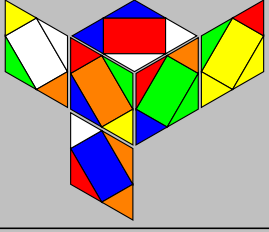
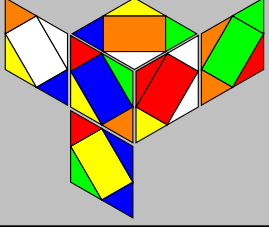
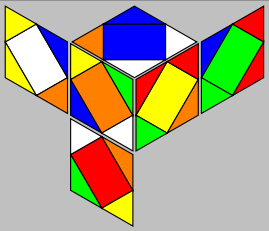
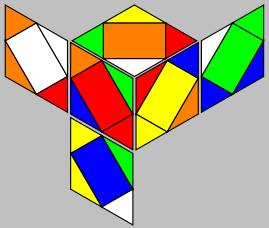
1.	U R U R L B' U R' U L R	
2.	L U B' L U' L B' U B' U R	
3.	L U R B' L' B L B U' B R'	
4.	U R U B' R L' R L R' B U	
5.	L B U' L U' B U L' R L' B	
Extra scrambles		
E1.	R L R B' L' R B U L' R U	
E2.	U L R U L' R' U R' L R' U'	

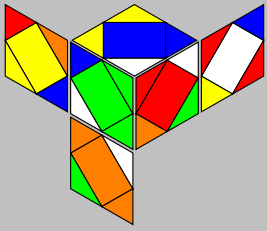
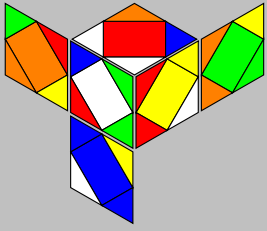
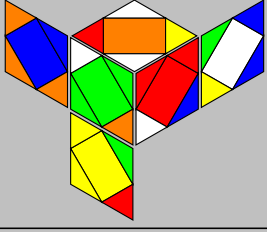
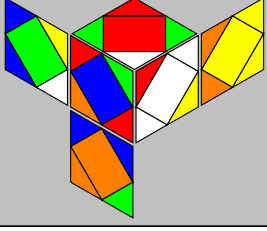
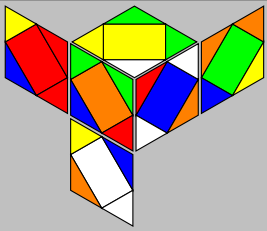
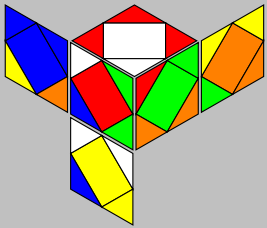


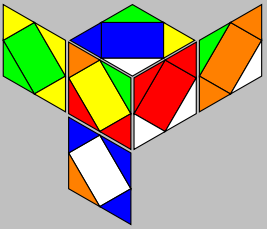
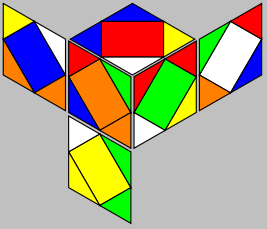
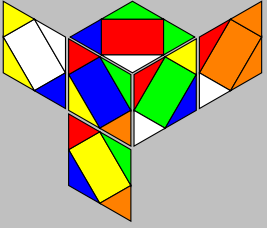
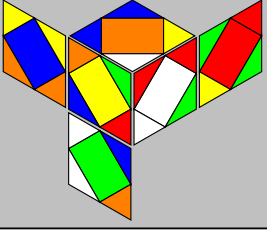
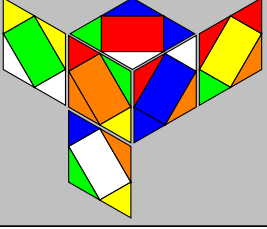
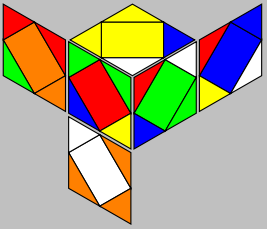
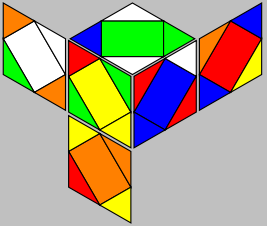
1.	R B U' R' U R B U' R' L U'	
2.	B L B' R B' U' B' L B' U R'	
3.	B R B' R' U' B' R L' R L B'	
4.	L R B' L' U B' U' L B' U L	
5.	B L R' U' L' U' R U B' L' B	
Extra scrambles		
E1.	U L B U B L B U' R' L R'	
E2.	B U B' L' B' R L R' L' B' L	

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

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

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

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

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

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