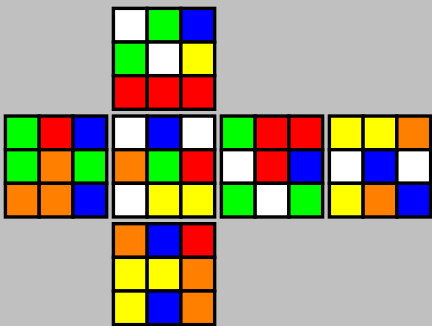
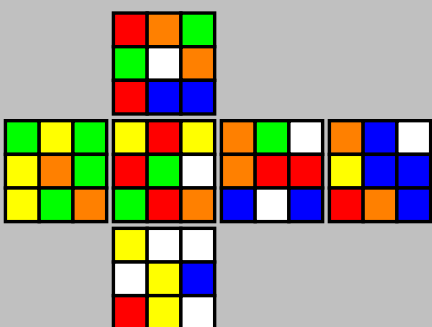
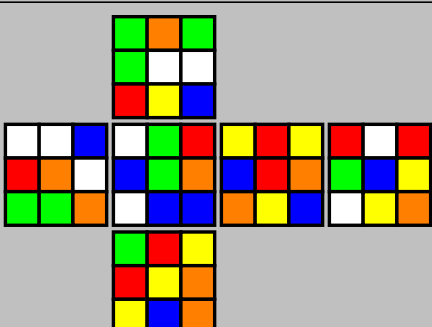
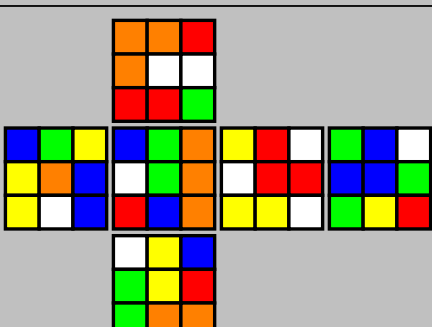
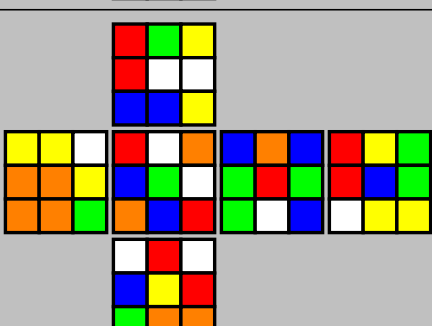
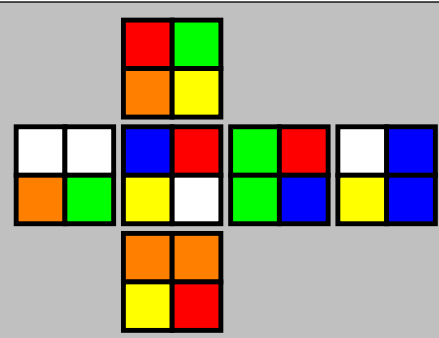
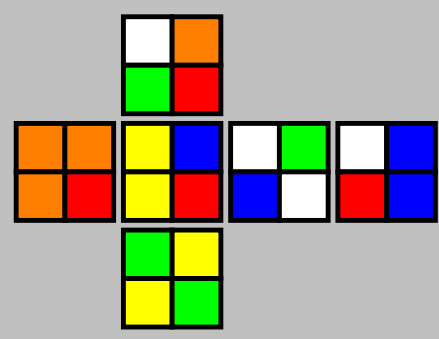
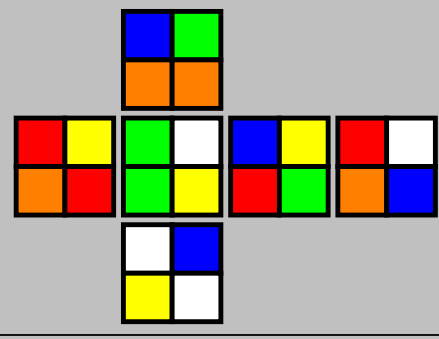
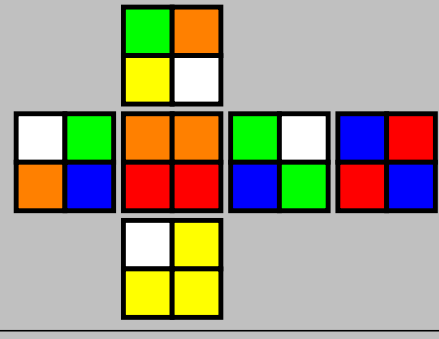
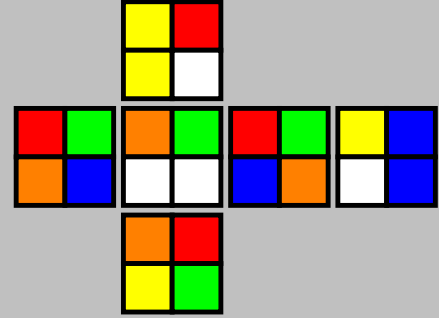
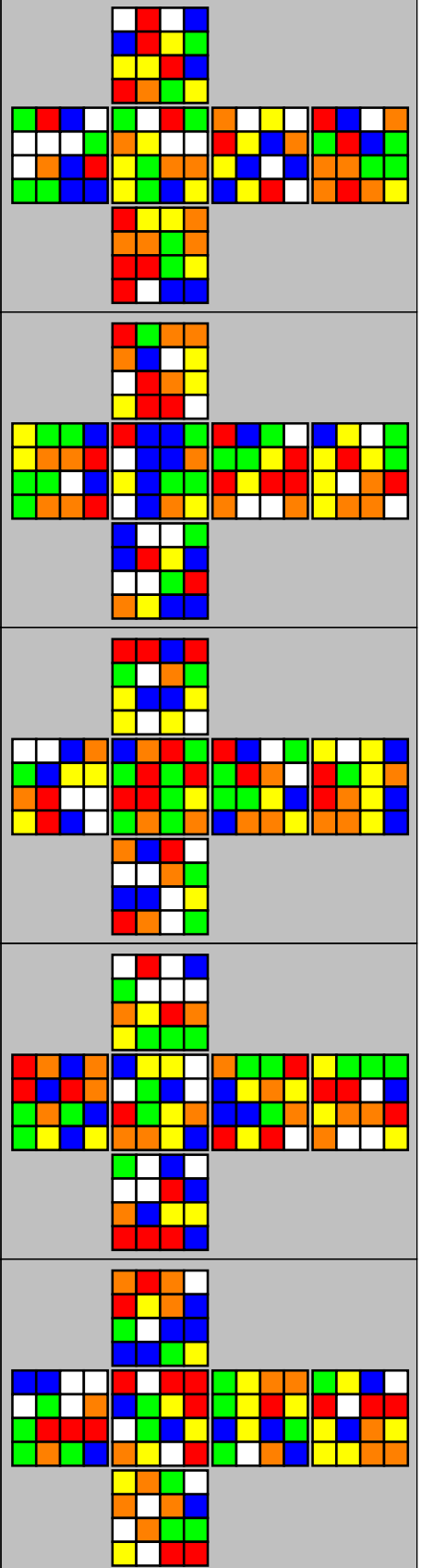
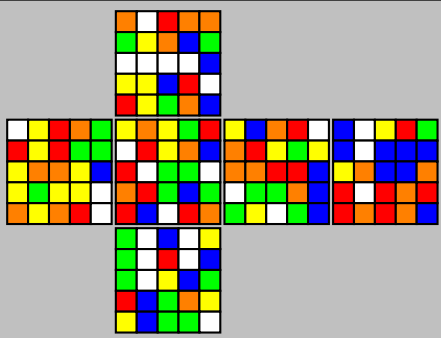
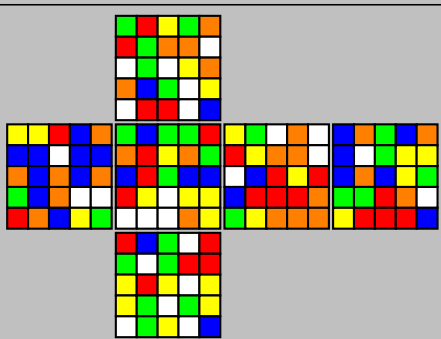
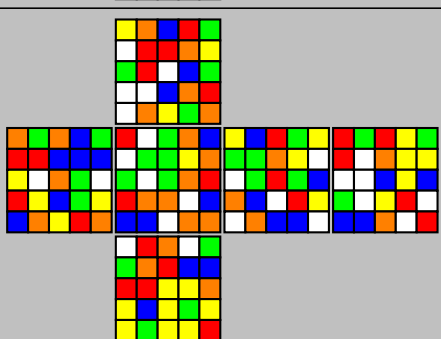
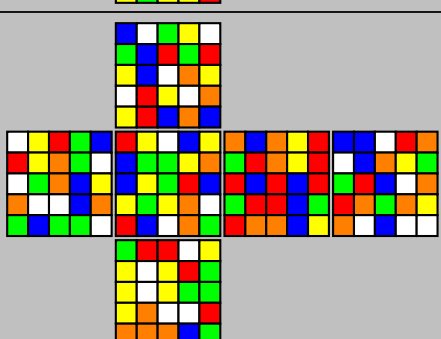
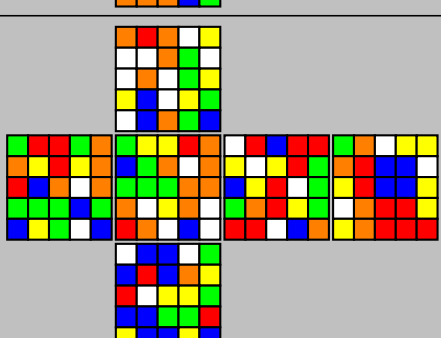


1.	$L'$ U B R D L F2 D2 L D2 F2 U2 F D2 F' U2 L2 D2 F U2	
2.	B2 R2 F' L2 B' R' D2 R U2 D' L' U2 R2 U R2 F2 D2 F2 B2 U	
3.	B U' L' D R2 D2 R2 D F' R L B2 L2 B2 U D2 F2 D' L2	
4.	D2 R2 B2 L D2 L D2 F2 R2 D' L F' R' B D2 R' D' U2 F'	
5.	U2 L2 U B2 D F2 L2 B2 D B2 D L' B F2 L F' D B D' R' U	

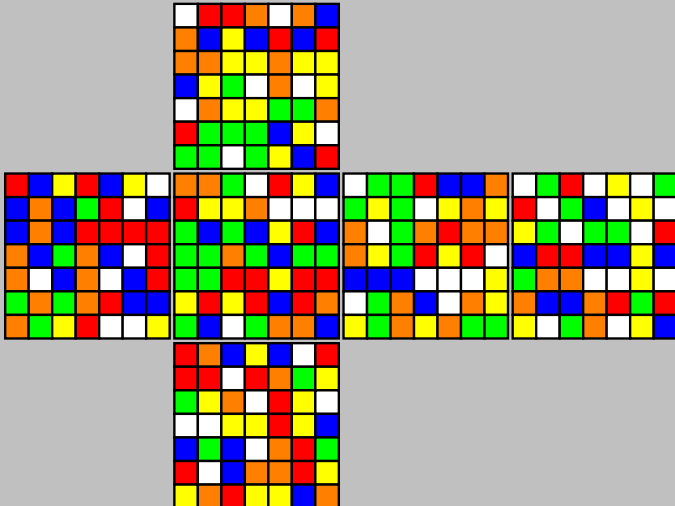
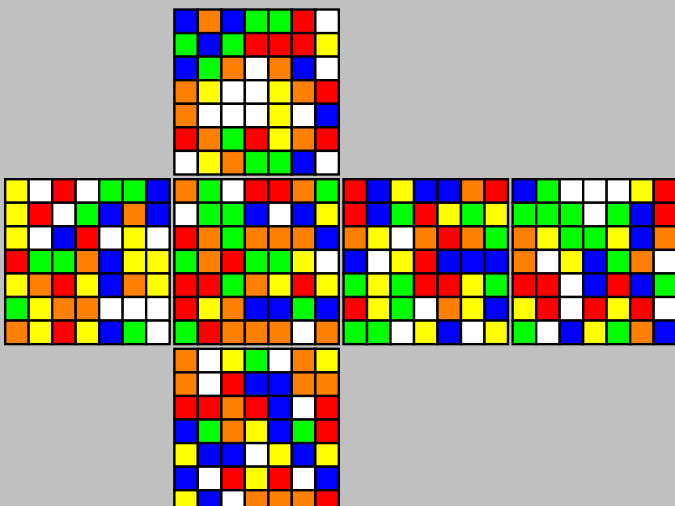
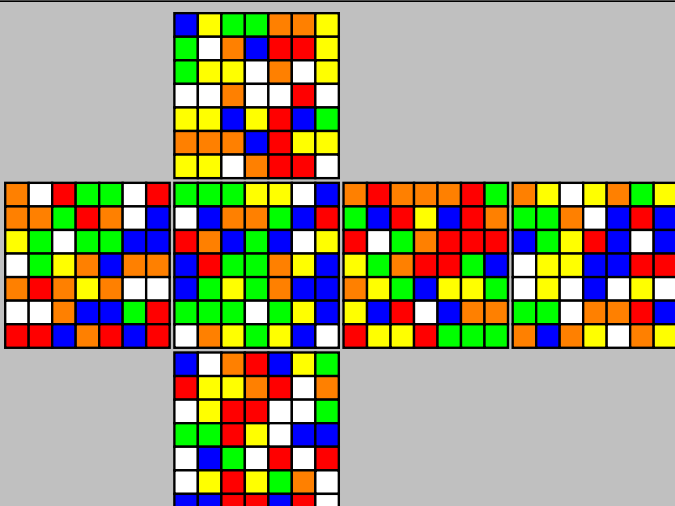
1.	$U' R' F^2 R^2 U' R' U' R U' F' R^2$	
2.	$U^2 R^2 U' F U^2 R' U^2 F R U' R$	
3.	$R F U' F' R U^2 R' F R^2 U^2 R'$	
4.	$R U^2 R' F' U' F' U' R^2 U' F^2 R^2$	
5.	$R' F^2 R U' R U' R' U R^2 U^2 F'$	

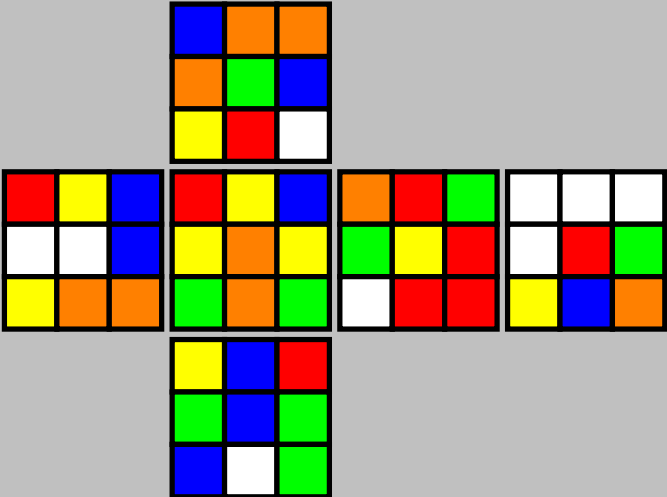
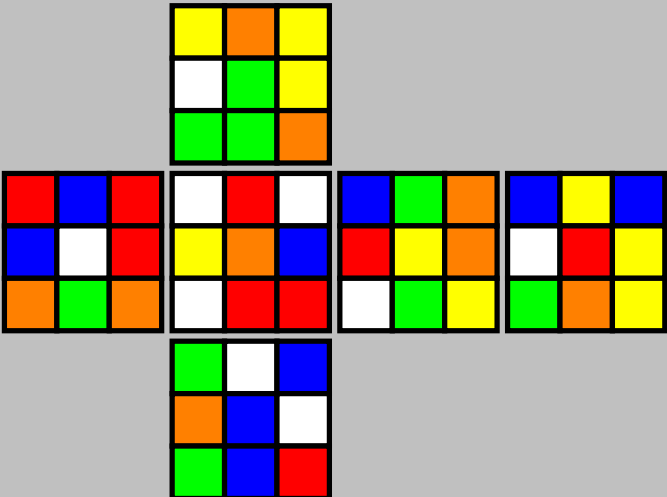
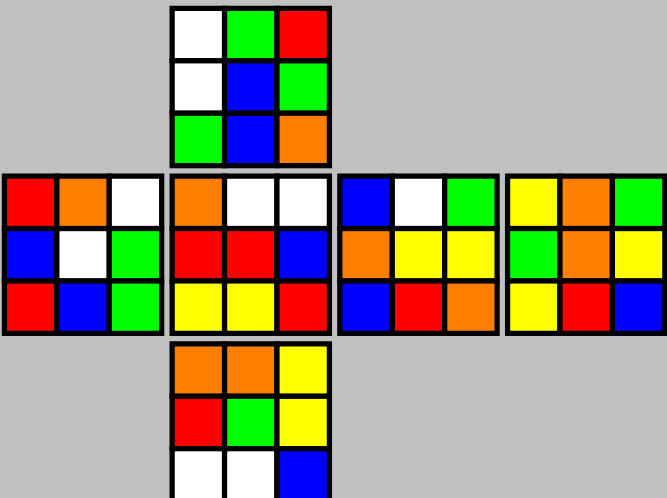
1.	U	Rw2	U	L'	R	Rw2	U2
	Uw'	Rw2	U	R	B'	Uw'	Rw'
	R	F'	R2	Rw'	Uw	Fw	B
	U'	Fw2	D2	U	R'	Fw	D
	F2	Rw'	R	F	Fw	R2	D'
	R	Rw'	B'	F	D'		
2.	L2	Uw'	R2	Rw2	L'	D'	U
	R	F'	Rw	Fw2	D2	B	Rw2
	Uw'	B	F'	D	B2	Uw	L2
	F	Uw2	F2	D2	Uw2	B2	D2
	L'	Uw2	F2	Fw'	L2	R'	Uw2
	B	L'	Rw'	U'	R2		
3.	Fw2	L2	F2	D'	F	Fw2	L
	Uw2	R2	Uw	Fw	D2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

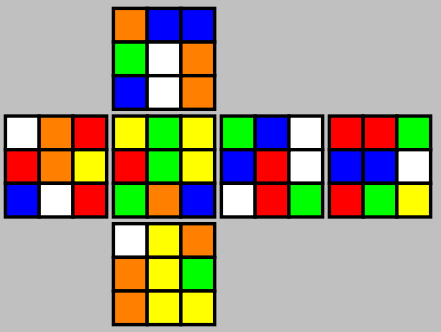
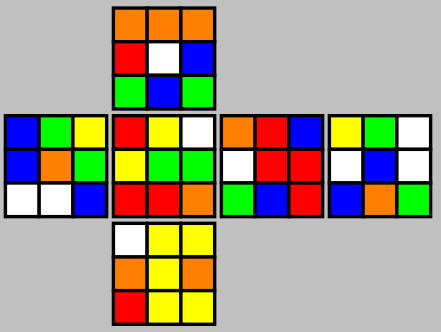
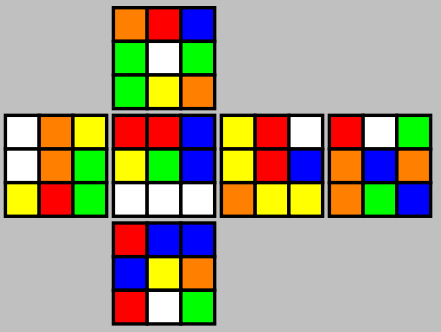
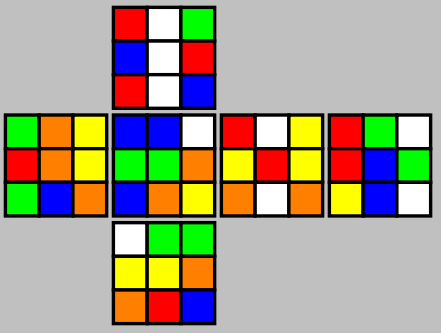
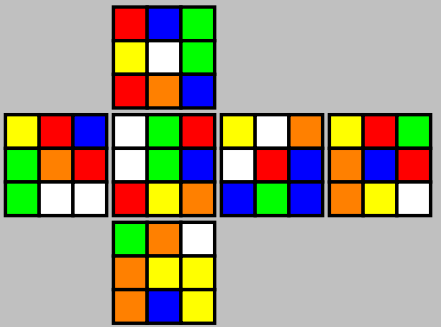


1.	U F2 Bw' U2 D R2 D2 Fw F'	
	U B' Bw2 Fw' Lw U' Fw' Dw' Bw'	
	Lw' Fw F D' Uw2 Lw' Rw2 B' U'	
	Dw R2 Rw2 Fw2 D2 Uw2 F Fw2 D2	
	Fw' Bw' D2 Dw2 F' U2 Rw L2 U2	
	L' Fw' R' Dw' Bw2 Fw B2 Rw B2	
	Uw2 L' D2 F2 B2 U	
2.	Uw' Bw2 D2 Lw Bw' Rw2 R Dw' F2	
	Dw R' B D2 B2 R2 Dw' Lw2 Bw	
	Rw2 Fw U D B2 D2 F Rw' F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

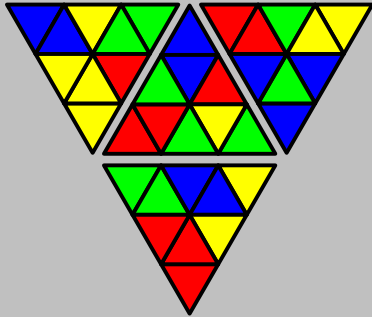
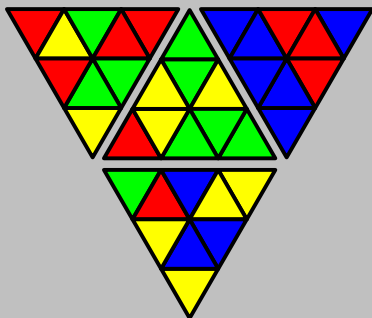
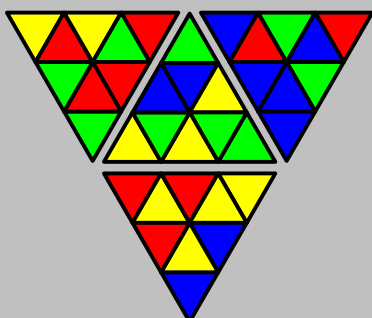
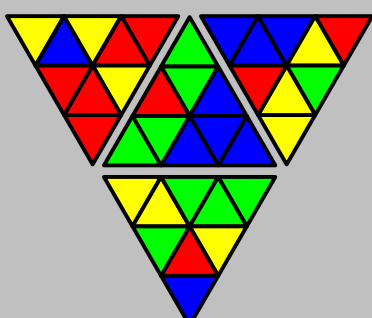
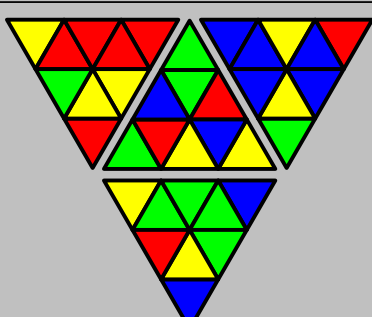
1.	Rw	U'	Lw'	D2	3Uw	Fw'
	Uw	F'	Rw2	F'	Fw2	3Uw'
	Dw	Fw2	Lw'	D'	Fw2	Uw2
	R	Lw	Uw'	Fw	3Fw'	3Uw
	Dw'	Uw'	U2	3Fw2	Dw	F'
	3Rw'	Rw2	F'	B'	Uw'	3Rw
	R	3Uw2	F2	Uw'	D'	B'
	Fw'	Lw'	Bw	3Rw	3Fw2	D'
	Fw	3Fw	R'	Fw2	Lw	F'
	Lw2	Rw2	Dw2	3Fw2	Uw	Lw
	D2	R'	Fw2	L'	Fw	Lw2
	U	3Fw	Lw'	F2	3Uw2	D
	B'	D	L2	B	D2	Dw'
	3Fw	L'				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

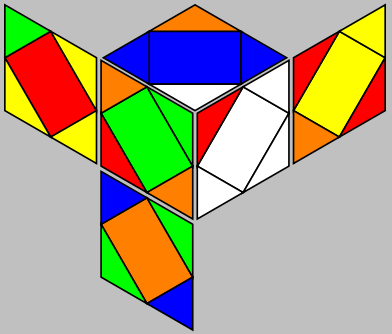
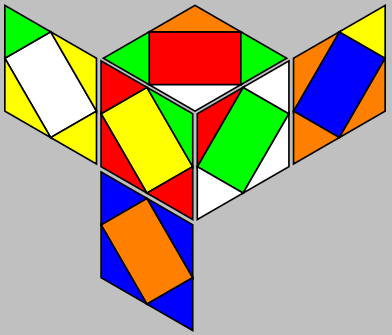
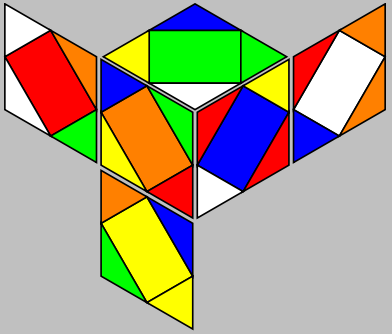
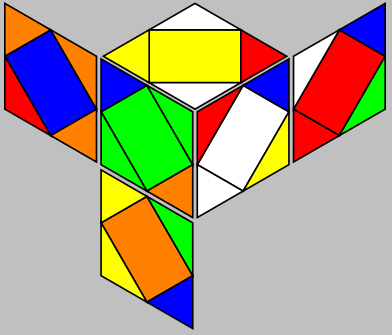
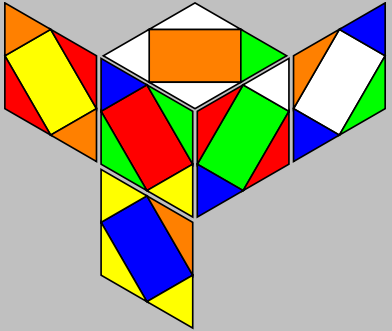
1.	<table><tr><td>Rw</td><td>F'</td><td>3Dw2</td><td>Uw'</td><td>3Rw'</td><td>Dw</td><td>Rw2</td></tr><tr><td>3Bw</td><td>3Lw</td><td>U'</td><td>Lw'</td><td>3Dw'</td><td>F'</td><td>3Uw'</td></tr><tr><td>L'</td><td>R</td><td>Uw2</td><td>Rw'</td><td>D</td><td>3Fw'</td><td>3Uw2</td></tr><tr><td>B2</td><td>3Lw'</td><td>Bw2</td><td>D</td><td>R'</td><td>3Rw2</td><td>L</td></tr><tr><td>B2</td><td>Uw</td><td>Bw'</td><td>D2</td><td>Uw</td><td>R</td><td>F'</td></tr><tr><td>Uw2</td><td>B'</td><td>Dw2</td><td>L</td><td>3Rw</td><td>3Dw'</td><td>Lw2</td></tr><tr><td>R2</td><td>U2</td><td>3Lw</td><td>F</td><td>Uw2</td><td>Rw2</td><td>R'</td></tr><tr><td>3Rw2</td><td>3Uw</td><td>Bw2</td><td>U'</td><td>3Uw</td><td>L</td><td>U'</td></tr><tr><td>Rw</td><td>Dw</td><td>3Bw2</td><td>Dw'</td><td>Rw</td><td>3Bw</td><td>R2</td></tr><tr><td>Bw2</td><td>B</td><td>Lw'</td><td>Uw2</td><td>L</td><td>D'</td><td>R'</td></tr><tr><td>Dw</td><td>F</td><td>U</td><td>3Dw'</td><td>Fw2</td><td>3Dw</td><td>B'</td></tr><tr><td>U</td><td>Dw'</td><td>F'</td><td>3Uw</td><td>U2</td><td>F2</td><td>U</td></tr><tr><td>B'</td><td>Bw'</td><td>Fw2</td><td>Uw</td><td>3Bw'</td><td>Lw</td><td>Dw2</td></tr><tr><td>R</td><td>Uw2</td><td>Dw'</td><td>F'</td><td>3Lw'</td><td>Lw</td><td>F</td></tr><tr><td>3Rw2</td><td>Bw2</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Rw	F'	3Dw2	Uw'	3Rw'	Dw	Rw2	3Bw	3Lw	U'	Lw'	3Dw'	F'	3Uw'	L'	R	Uw2	Rw'	D	3Fw'	3Uw2	B2	3Lw'	Bw2	D	R'	3Rw2	L	B2	Uw	Bw'	D2	Uw	R	F'	Uw2	B'	Dw2	L	3Rw	3Dw'	Lw2	R2	U2	3Lw	F	Uw2	Rw2	R'	3Rw2	3Uw	Bw2	U'	3Uw	L	U'	Rw	Dw	3Bw2	Dw'	Rw	3Bw	R2	Bw2	B	Lw'	Uw2	L	D'	R'	Dw	F	U	3Dw'	Fw2	3Dw	B'	U	Dw'	F'	3Uw	U2	F2	U	B'	Bw'	Fw2	Uw	3Bw'	Lw	Dw2	R	Uw2	Dw'	F'	3Lw'	Lw	F	3Rw2	Bw2						
Rw	F'	3Dw2	Uw'	3Rw'	Dw	Rw2																																																																																																					
3Bw	3Lw	U'	Lw'	3Dw'	F'	3Uw'																																																																																																					
L'	R	Uw2	Rw'	D	3Fw'	3Uw2																																																																																																					
B2	3Lw'	Bw2	D	R'	3Rw2	L																																																																																																					
B2	Uw	Bw'	D2	Uw	R	F'																																																																																																					
Uw2	B'	Dw2	L	3Rw	3Dw'	Lw2																																																																																																					
R2	U2	3Lw	F	Uw2	Rw2	R'																																																																																																					
3Rw2	3Uw	Bw2	U'	3Uw	L	U'																																																																																																					
Rw	Dw	3Bw2	Dw'	Rw	3Bw	R2																																																																																																					
Bw2	B	Lw'	Uw2	L	D'	R'																																																																																																					
Dw	F	U	3Dw'	Fw2	3Dw	B'																																																																																																					
U	Dw'	F'	3Uw	U2	F2	U																																																																																																					
B'	Bw'	Fw2	Uw	3Bw'	Lw	Dw2																																																																																																					
R	Uw2	Dw'	F'	3Lw'	Lw	F																																																																																																					
3Rw2	Bw2																																																																																																										
2.	<table><tr><td>3Uw2</td><td>B2</td><td>3Lw</td><td>3Dw'</td><td>3Fw</td><td>3Lw2</td><td>Fw2</td></tr><tr><td>R'</td><td>3Uw2</td><td>Bw</td><td>B</td><td>Fw</td><td>3Rw2</td><td>3Fw</td></tr><tr><td>3Lw2</td><td>R2</td><td>L'</td><td>Lw'</td><td>Fw'</td><td>Uw'</td><td>B</td></tr><tr><td>3Bw'</td><td>3Rw2</td><td>3Uw</td><td>3Fw'</td><td>D2</td><td>3Uw2</td><td>L2</td></tr><tr><td>3Bw</td><td>D'</td><td>Rw2</td><td>3Lw2</td><td>Uw'</td><td>B2</td><td>U'</td></tr><tr><td>D'</td><td>L'</td><td>F'</td><td>B</td><td>3Lw</td><td>3Bw'</td><td>3Fw</td></tr><tr><td>3Rw</td><td>3Lw</td><td>3Bw'</td><td>D2</td><td>Fw</td><td>F'</td><td>Dw'</td></tr><tr><td>3Fw'</td><td>U'</td><td>Uw2</td><td>R2</td><td>3Lw'</td><td>Uw</td><td>3Lw'</td></tr><tr><td>Uw2</td><td>3Lw2</td><td>3Uw'</td><td>L'</td><td>Dw2</td><td>Lw'</td><td>Dw'</td></tr><tr><td>3Uw2</td><td>3Rw'</td><td>Rw2</td><td>3Uw'</td><td>3Rw2</td><td>R</td><td>3Uw'</td></tr><tr><td>U</td><td>3Rw'</td><td>3Fw2</td><td>Bw</td><td>B'</td><td>3Rw2</td><td>3Fw</td></tr><tr><td>Bw</td><td>Dw2</td><td>3Rw</td><td>3Fw</td><td>3Lw'</td><td>3Dw</td><td>B</td></tr><tr><td>Dw2</td><td>3Dw2</td><td>F2</td><td>3Dw</td><td>U</td><td>L'</td><td>U2</td></tr><tr><td>3Dw</td><td>L2</td><td>D2</td><td>Bw</td><td>3Uw'</td><td>U2</td><td>3Lw'</td></tr><tr><td>Rw</td><td>3Fw'</td><td></td><td></td><td></td><td></td><td></td></tr></table>	3Uw2	B2	3Lw	3Dw'	3Fw	3Lw2	Fw2	R'	3Uw2	Bw	B	Fw	3Rw2	3Fw	3Lw2	R2	L'	Lw'	Fw'	Uw'	B	3Bw'	3Rw2	3Uw	3Fw'	D2	3Uw2	L2	3Bw	D'	Rw2	3Lw2	Uw'	B2	U'	D'	L'	F'	B	3Lw	3Bw'	3Fw	3Rw	3Lw	3Bw'	D2	Fw	F'	Dw'	3Fw'	U'	Uw2	R2	3Lw'	Uw	3Lw'	Uw2	3Lw2	3Uw'	L'	Dw2	Lw'	Dw'	3Uw2	3Rw'	Rw2	3Uw'	3Rw2	R	3Uw'	U	3Rw'	3Fw2	Bw	B'	3Rw2	3Fw	Bw	Dw2	3Rw	3Fw	3Lw'	3Dw	B	Dw2	3Dw2	F2	3Dw	U	L'	U2	3Dw	L2	D2	Bw	3Uw'	U2	3Lw'	Rw	3Fw'						
3Uw2	B2	3Lw	3Dw'	3Fw	3Lw2	Fw2																																																																																																					
R'	3Uw2	Bw	B	Fw	3Rw2	3Fw																																																																																																					
3Lw2	R2	L'	Lw'	Fw'	Uw'	B																																																																																																					
3Bw'	3Rw2	3Uw	3Fw'	D2	3Uw2	L2																																																																																																					
3Bw	D'	Rw2	3Lw2	Uw'	B2	U'																																																																																																					
D'	L'	F'	B	3Lw	3Bw'	3Fw																																																																																																					
3Rw	3Lw	3Bw'	D2	Fw	F'	Dw'																																																																																																					
3Fw'	U'	Uw2	R2	3Lw'	Uw	3Lw'																																																																																																					
Uw2	3Lw2	3Uw'	L'	Dw2	Lw'	Dw'																																																																																																					
3Uw2	3Rw'	Rw2	3Uw'	3Rw2	R	3Uw'																																																																																																					
U	3Rw'	3Fw2	Bw	B'	3Rw2	3Fw																																																																																																					
Bw	Dw2	3Rw	3Fw	3Lw'	3Dw	B																																																																																																					
Dw2	3Dw2	F2	3Dw	U	L'	U2																																																																																																					
3Dw	L2	D2	Bw	3Uw'	U2	3Lw'																																																																																																					
Rw	3Fw'																																																																																																										
3.	<table><tr><td>Dw2</td><td>L2</td><td>R'</td><td>Uw2</td><td>3Uw2</td><td>3Rw'</td><td>Lw'</td></tr><tr><td>Dw2</td><td>3Bw2</td><td>D2</td><td>R'</td><td>3Fw</td><td>L'</td><td>3Dw'</td></tr><tr><td>L</td><td>3Uw2</td><td>3Fw</td><td>D</td><td>Dw2</td><td>3Rw</td><td>Bw'</td></tr><tr><td>F2</td><td>3Lw</td><td>Lw'</td><td>Uw</td><td>Lw'</td><td>Dw'</td><td>Bw2</td></tr><tr><td>Uw2</td><td>3Rw'</td><td>Bw</td><td>3Uw</td><td>Lw'</td><td>Dw</td><td>F2</td></tr><tr><td>Dw</td><td>3Fw</td><td>U2</td><td>Lw2</td><td>Bw2</td><td>U</td><td>F'</td></tr><tr><td>3Rw2</td><td>Dw2</td><td>F</td><td>3Rw2</td><td>D2</td><td>U</td><td>F'</td></tr><tr><td>Dw2</td><td>F2</td><td>Fw</td><td>Lw2</td><td>D'</td><td>3Uw</td><td>Rw2</td></tr><tr><td>B</td><td>Fw'</td><td>U'</td><td>Fw</td><td>L</td><td>3Lw'</td><td>B</td></tr><tr><td>Fw'</td><td>3Fw'</td><td>Dw2</td><td>R'</td><td>3Dw</td><td>Lw</td><td>3Fw'</td></tr><tr><td>3Uw2</td><td>Rw'</td><td>3Lw'</td><td>F2</td><td>3Dw'</td><td>3Bw'</td><td>Dw</td></tr><tr><td>U'</td><td>3Fw2</td><td>3Uw</td><td>Dw'</td><td>R2</td><td>Fw</td><td>3Uw'</td></tr><tr><td>3Dw</td><td>Uw</td><td>Lw</td><td>Rw2</td><td>Bw2</td><td>B'</td><td>D2</td></tr><tr><td>Fw2</td><td>R'</td><td>Fw</td><td>Uw'</td><td>Rw2</td><td>U2</td><td>B2</td></tr><tr><td>3Fw'</td><td>3Dw'</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Dw2	L2	R'	Uw2	3Uw2	3Rw'	Lw'	Dw2	3Bw2	D2	R'	3Fw	L'	3Dw'	L	3Uw2	3Fw	D	Dw2	3Rw	Bw'	F2	3Lw	Lw'	Uw	Lw'	Dw'	Bw2	Uw2	3Rw'	Bw	3Uw	Lw'	Dw	F2	Dw	3Fw	U2	Lw2	Bw2	U	F'	3Rw2	Dw2	F	3Rw2	D2	U	F'	Dw2	F2	Fw	Lw2	D'	3Uw	Rw2	B	Fw'	U'	Fw	L	3Lw'	B	Fw'	3Fw'	Dw2	R'	3Dw	Lw	3Fw'	3Uw2	Rw'	3Lw'	F2	3Dw'	3Bw'	Dw	U'	3Fw2	3Uw	Dw'	R2	Fw	3Uw'	3Dw	Uw	Lw	Rw2	Bw2	B'	D2	Fw2	R'	Fw	Uw'	Rw2	U2	B2	3Fw'	3Dw'						
Dw2	L2	R'	Uw2	3Uw2	3Rw'	Lw'																																																																																																					
Dw2	3Bw2	D2	R'	3Fw	L'	3Dw'																																																																																																					
L	3Uw2	3Fw	D	Dw2	3Rw	Bw'																																																																																																					
F2	3Lw	Lw'	Uw	Lw'	Dw'	Bw2																																																																																																					
Uw2	3Rw'	Bw	3Uw	Lw'	Dw	F2																																																																																																					
Dw	3Fw	U2	Lw2	Bw2	U	F'																																																																																																					
3Rw2	Dw2	F	3Rw2	D2	U	F'																																																																																																					
Dw2	F2	Fw	Lw2	D'	3Uw	Rw2																																																																																																					
B	Fw'	U'	Fw	L	3Lw'	B																																																																																																					
Fw'	3Fw'	Dw2	R'	3Dw	Lw	3Fw'																																																																																																					
3Uw2	Rw'	3Lw'	F2	3Dw'	3Bw'	Dw																																																																																																					
U'	3Fw2	3Uw	Dw'	R2	Fw	3Uw'																																																																																																					
3Dw	Uw	Lw	Rw2	Bw2	B'	D2																																																																																																					
Fw2	R'	Fw	Uw'	Rw2	U2	B2																																																																																																					
3Fw'	3Dw'																																																																																																										

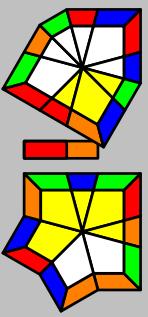
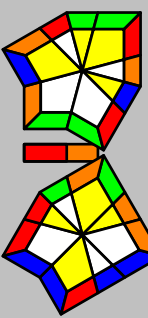
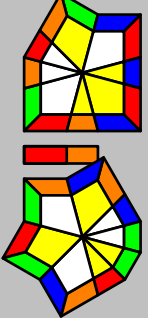
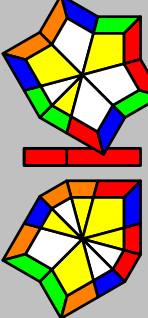

1.	<table><tr><td>R2</td><td>D2</td><td>B2</td><td>D2</td></tr><tr><td>B2</td><td>U'</td><td>L2</td><td>D'</td></tr><tr><td>R2</td><td>F</td><td>L</td><td>F'</td></tr><tr><td>U</td><td>R'</td><td>F'</td><td>R</td></tr><tr><td>U</td><td>B'</td><td>R2</td><td>D2</td></tr><tr><td>Rw</td><td>Uw'</td><td></td><td></td></tr></table>	R2	D2	B2	D2	B2	U'	L2	D'	R2	F	L	F'	U	R'	F'	R	U	B'	R2	D2	Rw	Uw'			
R2	D2	B2	D2																							
B2	U'	L2	D'																							
R2	F	L	F'																							
U	R'	F'	R																							
U	B'	R2	D2																							
Rw	Uw'																									
2.	<table><tr><td>R2</td><td>D</td><td>L2</td><td>U</td></tr><tr><td>F2</td><td>D2</td><td>B2</td><td>U2</td></tr><tr><td>R'</td><td>D'</td><td>B</td><td>L</td></tr><tr><td>B</td><td>D</td><td>R'</td><td>U2</td></tr><tr><td>B</td><td>F</td><td>R'</td><td>D'</td></tr><tr><td>Rw</td><td>Uw'</td><td></td><td></td></tr></table>	R2	D	L2	U	F2	D2	B2	U2	R'	D'	B	L	B	D	R'	U2	B	F	R'	D'	Rw	Uw'			
R2	D	L2	U																							
F2	D2	B2	U2																							
R'	D'	B	L																							
B	D	R'	U2																							
B	F	R'	D'																							
Rw	Uw'																									
3.	<table><tr><td>D2</td><td>L</td><td>B2</td><td>D2</td></tr><tr><td>F2</td><td>L</td><td>U2</td><td>L'</td></tr><tr><td>D2</td><td>F2</td><td>L2</td><td>F'</td></tr><tr><td>R</td><td>B2</td><td>D'</td><td>B</td></tr><tr><td>D</td><td>U'</td><td>R</td><td>B</td></tr><tr><td>U</td><td>Rw'</td><td>Uw</td><td></td></tr></table>	D2	L	B2	D2	F2	L	U2	L'	D2	F2	L2	F'	R	B2	D'	B	D	U'	R	B	U	Rw'	Uw		
D2	L	B2	D2																							
F2	L	U2	L'																							
D2	F2	L2	F'																							
R	B2	D'	B																							
D	U'	R	B																							
U	Rw'	Uw																								

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



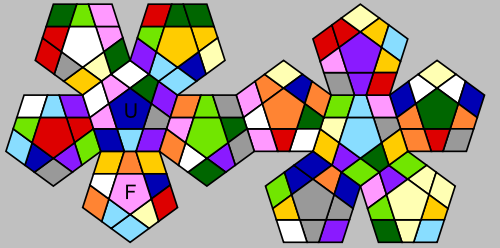
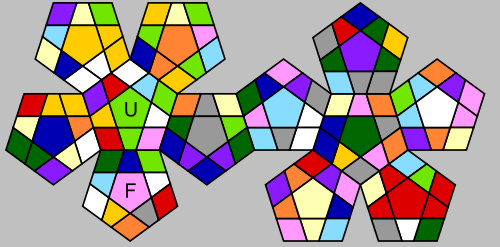
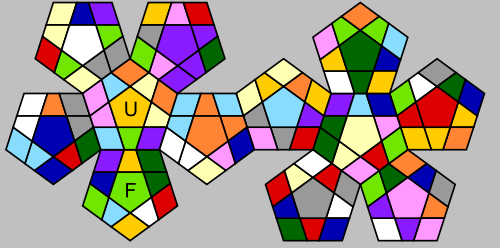
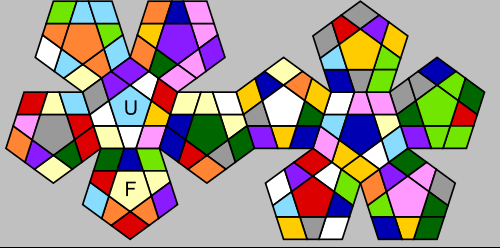
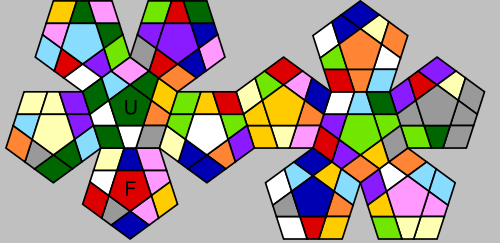
1.	R B U L' B' U' B' U' B' L' U' r'	
2.	B' R' L' B' U R B' R' U' B' R l' b	
3.	B L R' L B' U L' R U L' U' u' l' b'	
4.	B' R' B U' L' U' R' L B U' R b	
5.	L' U L B U' R U' L U B' R l' r' b'	

1.	$B L B R U B U' L B' R' U'$	
2.	$U L' U L R B L' B U R' L'$	
3.	$U B R' L R' U L' R B L' B$	
4.	$R B L' R L U R' B' L' R' L$	
5.	$B L R U' R L' B L' B R' L$	

1.	$(3, 2) / (4, -2) / (-3, 0) /$ $(0, -3) / (5, -4) / (0, -3) /$ $(-2, 0) / (-3, 0) / (0, -2) /$ $(5, 0) / (5, 0) / (0, -4) /$ $(-2, -2) /$	
2.	$(3, 5) / (0, -3) / (-3, -3) /$ $(1, -2) / (5, -1) / (4, 0) /$ $(0, -3) / (-1, -2) / (3, -2) /$ $(-5, 0) / (-4, -2) / (4, 0)$	
3.	$(-5, -3) / (5, 2) / (1, -2) /$ $(5, -4) / (-3, 0) / (1, 0) /$ $(3, 0) / (-4, -5) / (-3, -4) /$ $(6, 0) / (-3, -2) / (-4, 0)$	
4.	$(0, -1) / (-2, -5) / (0, 6) /$ $(0, -3) / (-3, 0) / (-3, -1) /$ $(3, 0) / (3, 0) / (-1, 0) /$ $(2, -5) / (-4, -1) / (4, 0) /$ $(-2, 0)$	
5.	$(1, 3) / (-3, 6) / (0, -3) /$ $(-1, -4) / (4, -3) / (3, 0) /$ $(-4, 0) / (1, 0) / (6, -2) /$ $(2, -1) / (6, -4)$	

2019-05-31

minx  
Scrambles for 2019-05-31

1.	R++ D-- R++ D++ R-- D++ R-- D-- R++ D++ U	
	R++ D-- R++ D++ R++ D++ R-- D++ R-- D++ U	
	R-- D++ R++ D-- R++ D-- R++ D++ R-- D++ U	
	R++ D-- R++ D-- R++ D++ R-- D++ R++ D++ U	
	R-- D++ R++ D-- R++ D-- R++ D++ R++ D-- U'	
	R-- D++ R-- D++ R-- D-- R-- D++ R++ D-- U'	
	R-- D++ R-- D++ R-- D-- R++ D++ R-- D++ U	
2.	R++ D++ R++ D++ R-- D++ R-- D-- R-- D++ U	
	R-- D-- R-- D-- R-- D++ R-- D++ R-- D-- U'	
	R-- D++ R-- D++ R-- D++ R++ D-- R++ D++ U	
	R++ D++ R++ D-- R++ D-- R-- D-- R-- D-- U'	
	R++ D-- R++ D++ R++ D++ R-- D-- R-- D-- U'	
	R-- D++ R++ D++ R++ D-- R-- D++ R++ D-- U'	
	R++ D++ R++ D-- R++ D-- R-- D++ R-- D++ U	
3.	R++ D++ R-- D++ R++ D++ R++ D++ R-- D++ U	
	R-- D++ R-- D++ R++ D++ R-- D-- R-- D++ U	
	R++ D++ R++ D-- R++ D-- R++ D-- R-- D-- U'	
	R-- D-- R++ D-- R++ D-- R-- D-- R-- D-- U'	
	R-- D++ R++ D++ R-- D-- R-- D-- R++ D-- U'	
	R-- D++ R++ D-- R++ D-- R++ D++ R++ D-- U'	
	R-- D++ R-- D++ R++ D-- R-- D-- R-- D-- U'	
4.	R-- D-- R++ D++ R-- D-- R-- D++ R-- D++ U	
	R-- D-- R-- D++ R-- D-- R-- D-- R++ D++ U	
	R++ D++ R-- D++ R++ D-- R++ D-- R++ D++ U	
	R-- D-- R++ D-- R++ D++ R++ D-- R++ D-- U'	
	R-- D++ R++ D-- R-- D-- R++ D++ R-- D-- U'	
	R-- D++ R-- D-- R++ D++ R-- D-- R++ D++ U	
	R++ D-- R-- D-- R++ D-- R++ D++ R-- D++ U	
5.	R-- D++ R++ D-- R-- D++ R-- D-- R-- D-- U'	
	R-- D-- R-- D-- R-- D++ R-- D++ R++ D-- U'	
	R++ D-- R++ D-- R-- D-- R++ D-- R-- D++ U	
	R++ D-- R++ D-- R++ D++ R-- D-- R-- D++ U	
	R++ D++ R++ D++ R-- D++ R++ D-- R-- D-- U'	
	R++ D-- R++ D++ R++ D++ R++ D++ R++ D++ U	
	R++ D-- R-- D-- R++ D++ R++ D-- R++ D-- U'	

2019-05-31

 clock  
 Scrambles for 2019-05-31

1.	UR0+    DR4+    DL4- UL5-    U2-    R3+ D1+    L2-    ALL1+ y2    U5-    R2- D5+    L4-    ALL5- UR    DL	
2.	UR1+    DR2-    DL0+ UL1+    U5-    R3- D0+    L2+    ALL6+ y2    U2+    R0+ D5+    L4-    ALL2- DR    UL	
3.	UR4-    DR2-    DL3- UL3+    U5+    R6+ D5-    L4-    ALL2- y2    U3+    R6+ D6+    L5+    ALL4- DR    UL	
4.	UR4+    DR0+    DL5- UL5-    U6+    R4- D3+    L2-    ALL6+ y2    U3-    R4- D2-    L4-    ALL4- UL	
5.	UR2-    DR4+    DL0+ UL2+    U2+    R4- D0+    L1-    ALL3- y2    U3-    R0+ D5+    L1+    ALL2+ UR    DL	

## Fewest Moves

- > You have 60 minutes to find and write a solution.
- > Write 1 move per bar. To delete a move, clearly blacken it.
- > Your solution must not be directly derived from any part of the scrambling algorithm.
- > Your solution must be at most 80 moves, including rotations.
- > Your result will be counted in OBTM.
- > Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

## Face Moves

Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2

## Rotations

Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

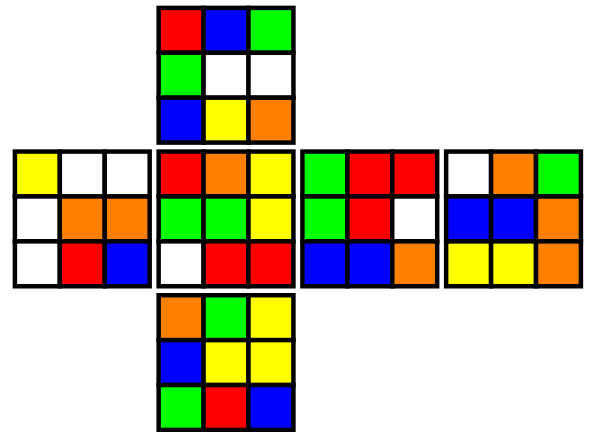
Scrambles for 2019-05-31  
333fm

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

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

DO NOT FILL IF YOU ARE THE COMPETITOR.

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



Scramble: R' U' F L2 D2 R2 D L2 R2 F2 R2 U2 B' U L B' U' R2 B2 R' B L U2 R' U' F

This image shows a full page of blank graph paper. The grid consists of evenly spaced horizontal and vertical lines forming small squares across the entire area. There are no margins, text, or other markings on the page.

## Fewest Moves

- > You have 60 minutes to find and write a solution.
- > Write 1 move per bar. To delete a move, clearly blacken it.
- > Your solution must not be directly derived from any part of the scrambling algorithm.
- > Your solution must be at most 80 moves, including rotations.
- > Your result will be counted in OBTM.
- > Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

## Face Moves

Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2

## Rotations

Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

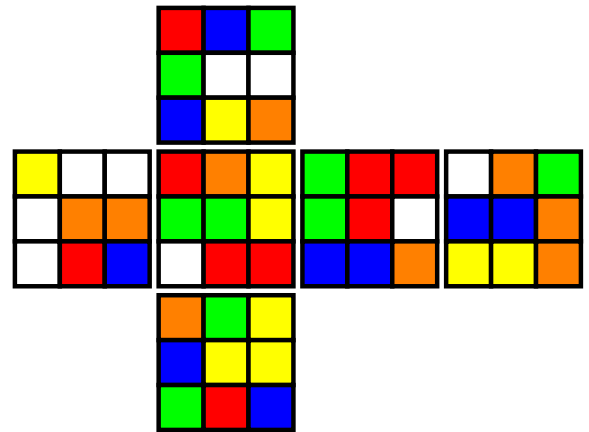
Scrambles for 2019-05-31  
333fm

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

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

DO NOT FILL IF YOU ARE THE COMPETITOR.

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

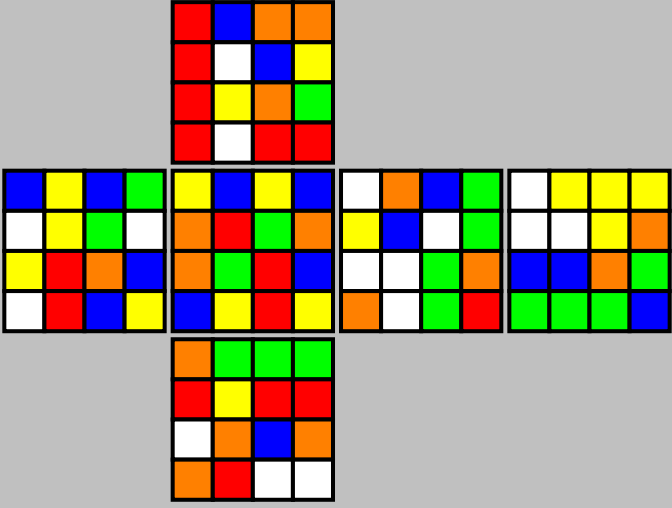
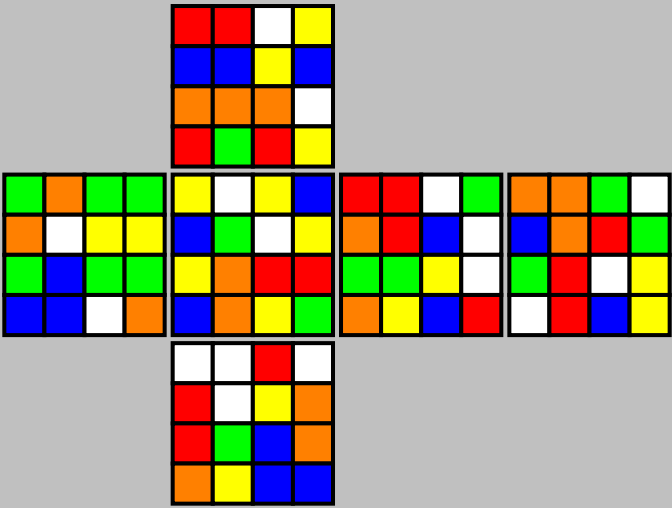
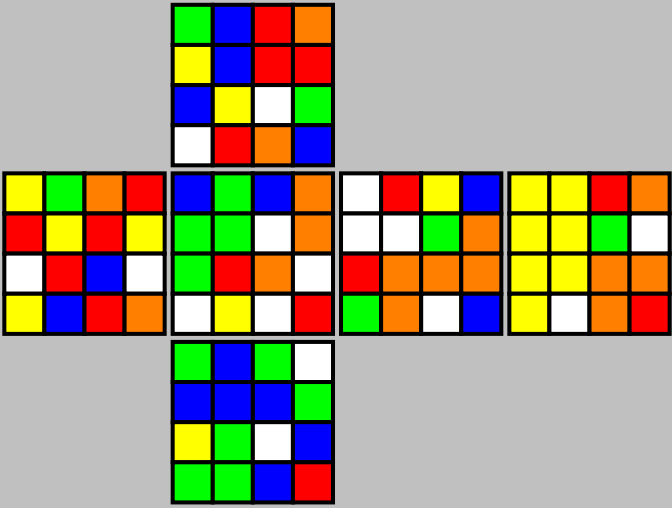


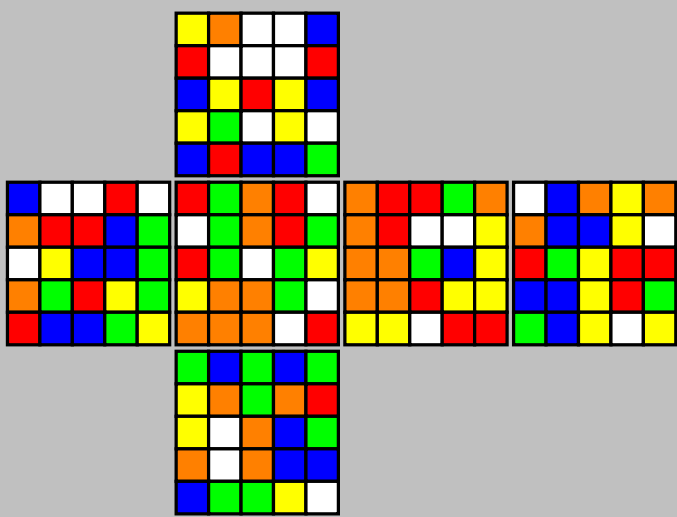
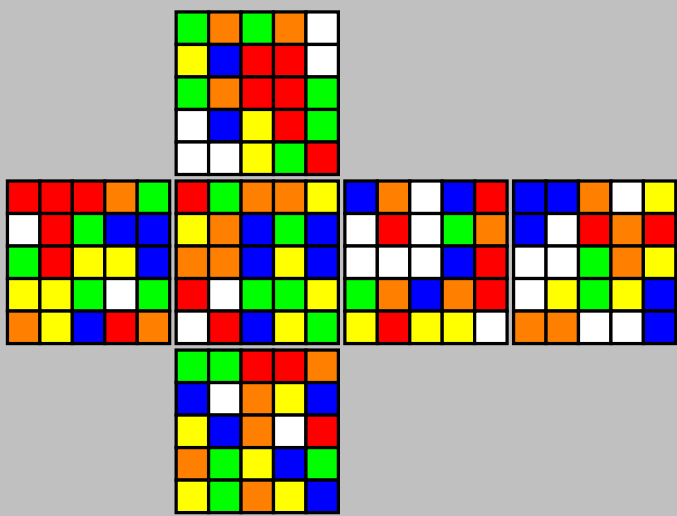
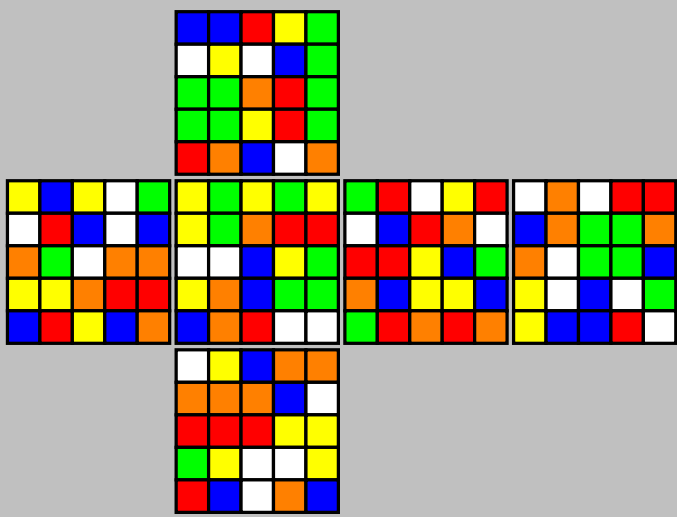
Scramble: R' U' F L2 D2 R2 D L2 R2 F2 R2 U2 B' U L B' U' R2 B2 R' B L U2 R' U' F

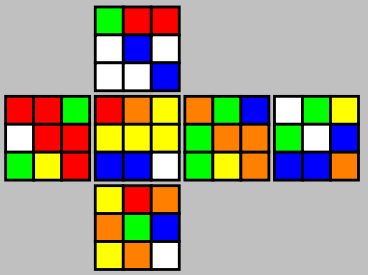
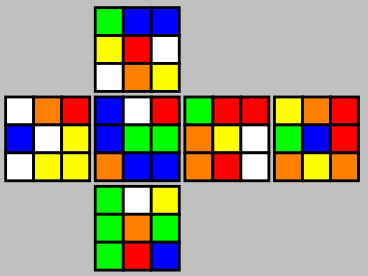
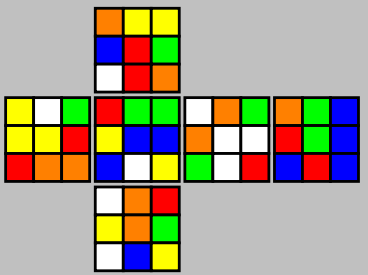
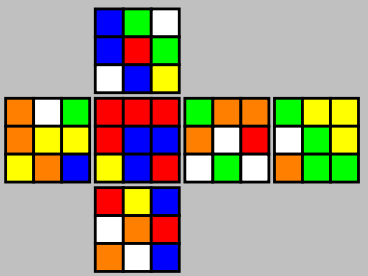
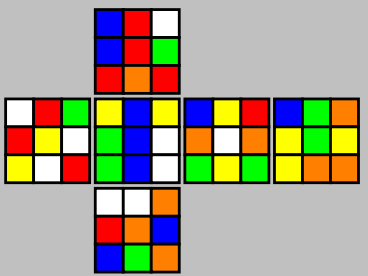
This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

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



1.	<div>R' U' B D' R'</div> <div>B D2 R' D2 B'</div> <div>R B2 L2 F2 L'</div> <div>B2 D2 R2 U2 L'</div> <div>U2 Fw2 Uw2 F' D'</div> <div>Rw2 U' F Rw2 F</div> <div>Uw2 B U D' L'</div> <div>B2 Rw' Fw' L2 D</div> <div>Rw F2 Rw' Uw R</div> <div>z'</div>	
2.	<div>D2 L R D2 F2</div> <div>L' D2 U2 B2 R</div> <div>U2 B D' B2 U2</div> <div>R' U2 L2 R' U'</div> <div>F2 Uw2 Fw2 D B</div> <div>D2 B2 U Rw2 B2</div> <div>U' Rw2 F' R U'</div> <div>Rw U Rw' R F'</div> <div>Uw' Fw Rw L Fw2</div> <div>D2 z y</div>	
3.	<div>U2 F D2 F R2</div> <div>U2 L2 B' R2 B2</div> <div>U L' F U L</div> <div>F' R B2 Rw2 Uw2</div> <div>D R2 L' F2 D2</div> <div>L' Uw2 Rw2 U' F2</div> <div>D Fw D B L</div> <div>B Rw2 Fw' U Uw</div> <div>Rw Uw2 R2 L2 z</div>	

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

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

6.	F2	D2	R2	F	L2	D2	F
	U2	B	D'	B	D2	U2	L
	R'	F'	D'	L2	R	F2	Uw'

