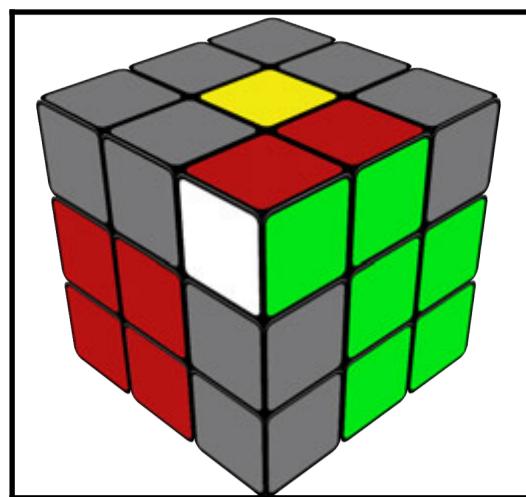
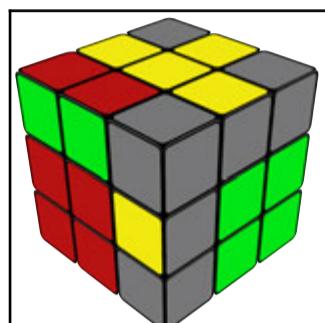


F2L Algorithm

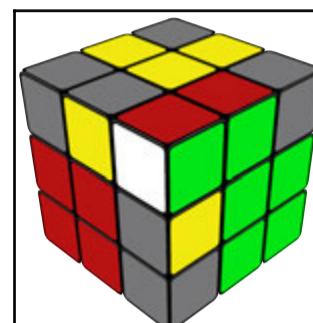
- 基本手順 4 1 種類
- 基本手順以外 (3 種類)



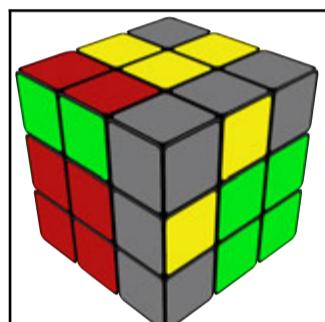
#4



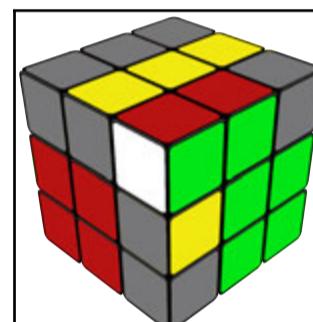
R U' R'



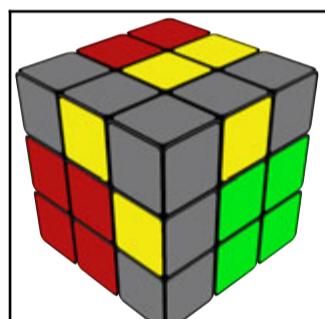
R' F R F'



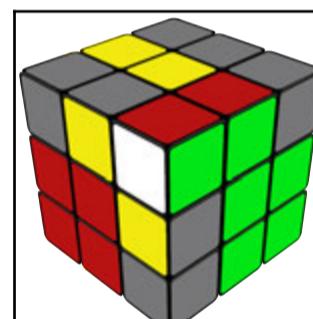
R B U' B' R'



R' U' F R F' R' U R

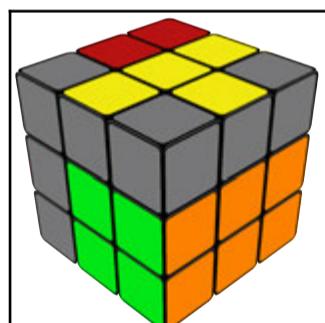


F R' F' R2 U2 R'



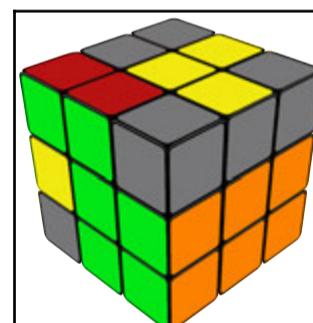
R' F R2 U R' U' F'

FL



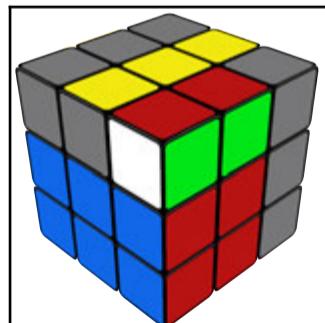
F U' F'

FL



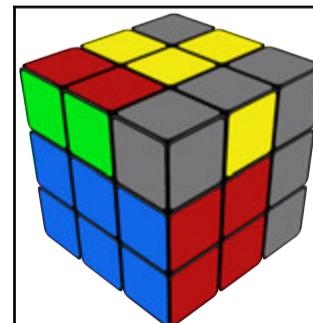
F' L F L'

BR



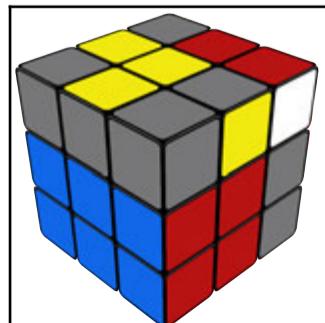
R' F' U' F R

BR



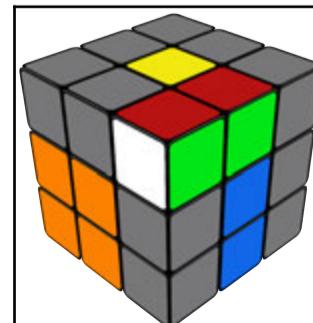
R'2 F R F' R

BR

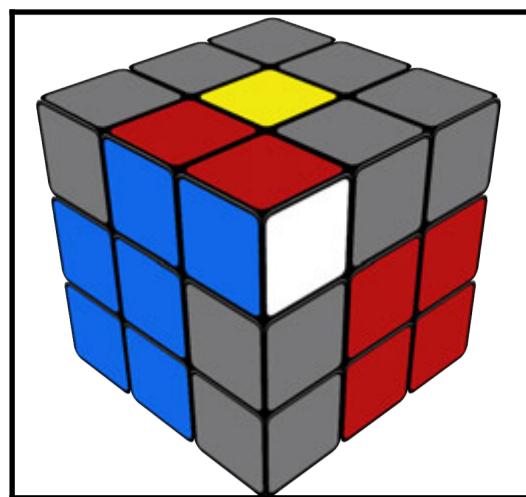


r' U' R U M'

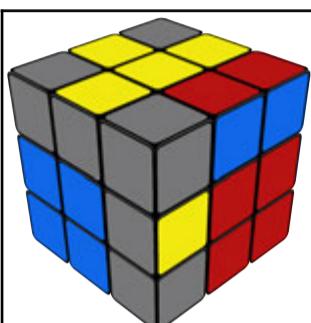
BL



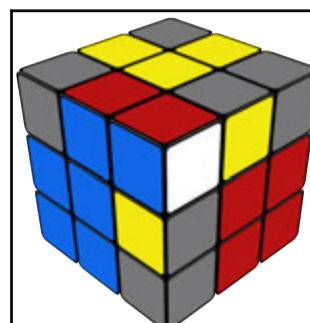
L U2 L'



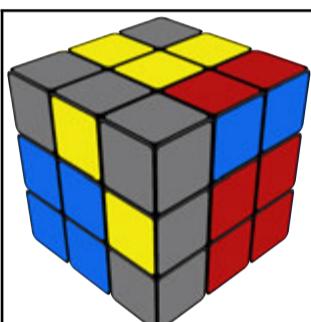
#4



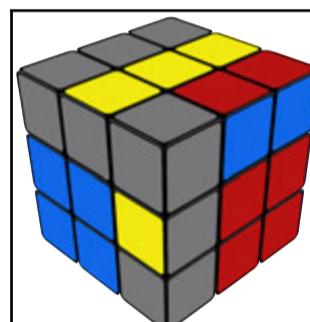
y L' U L
y' R' U R
F' U F



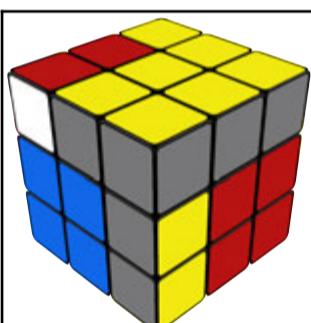
F R' F' R



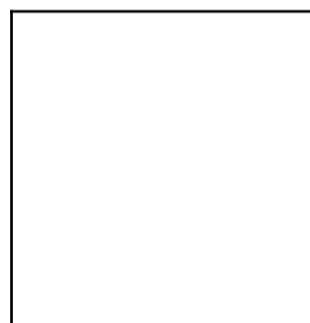
y F U R U R' F'



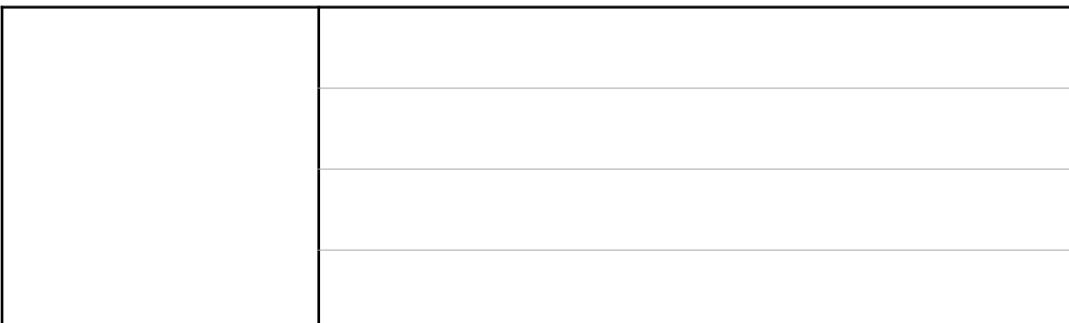
y F R U R' F'



r' D' r U' r' D r



FL



FL



BR



BR

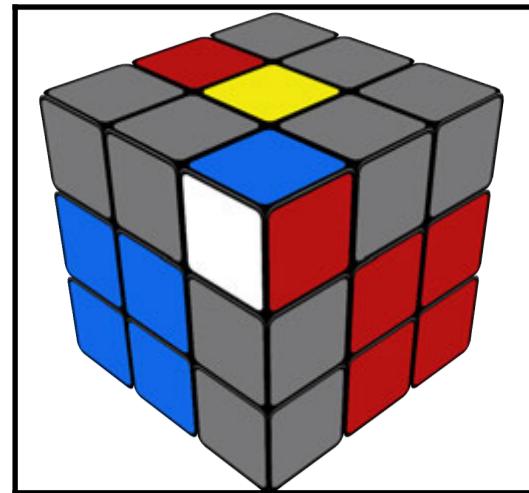


BL

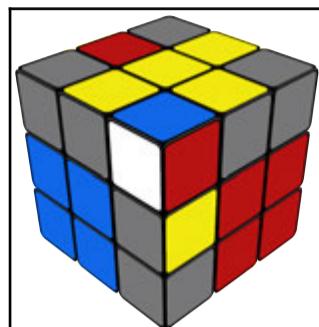


BL

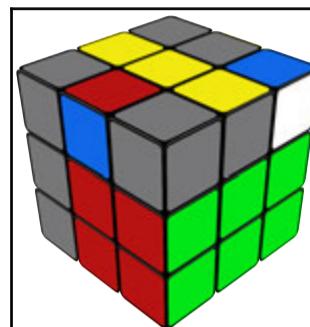




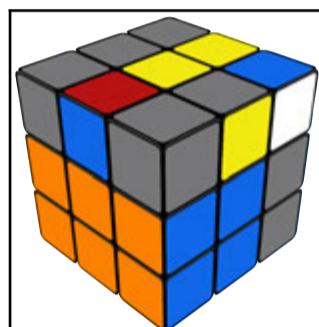
#4



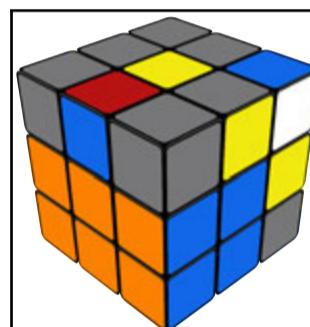
F' U' F
y L' U' L
y' R' U' R



R' F R U R' F' R

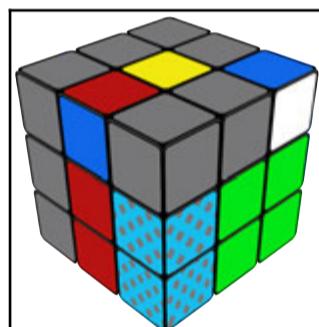


R' U2 F' U F R



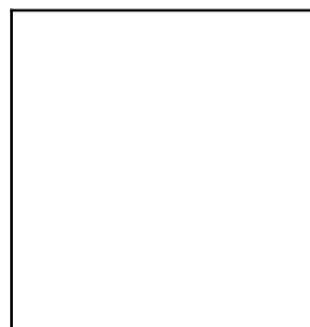
R D r' U' r D' R'2 U' R

FL



R' F R U F'

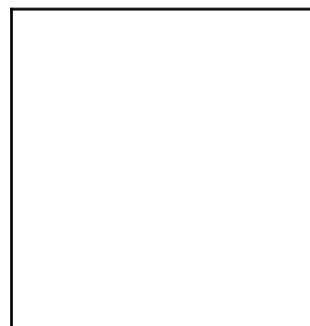
FL



BR



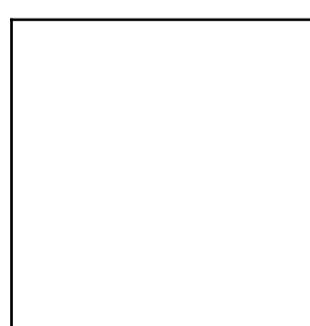
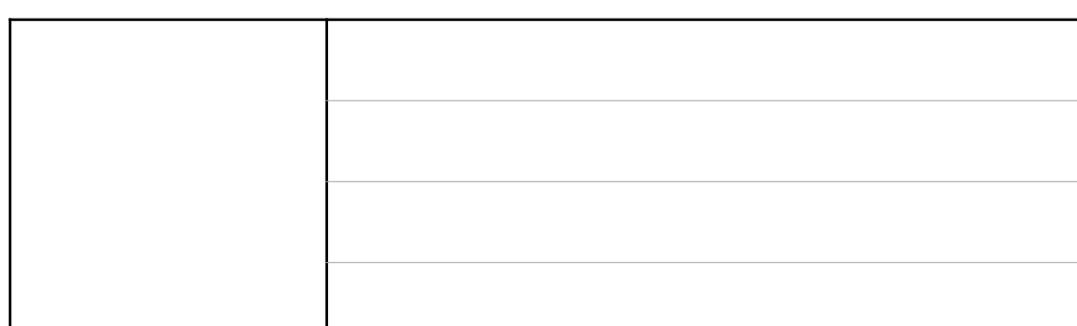
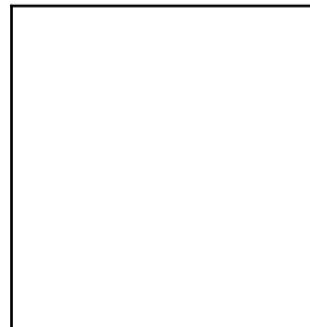
BR

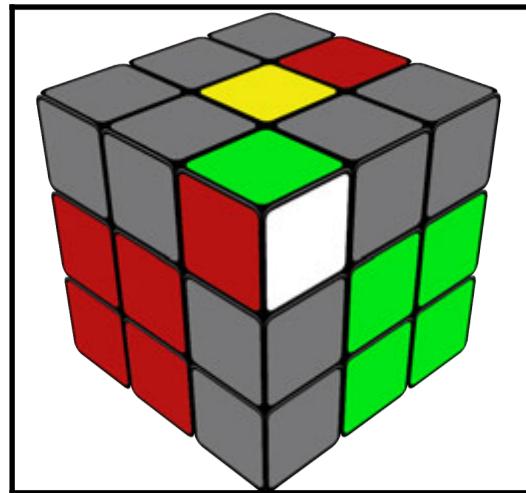


BL

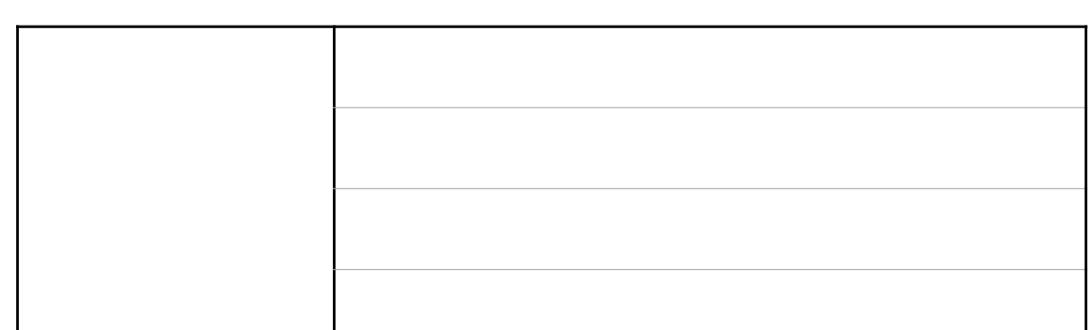
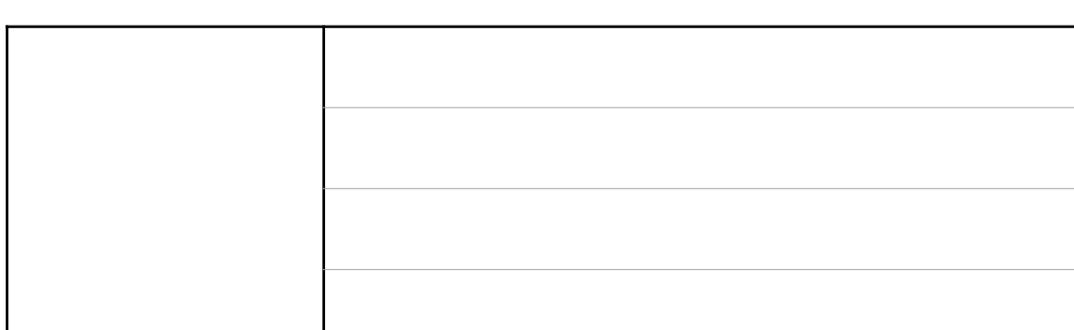
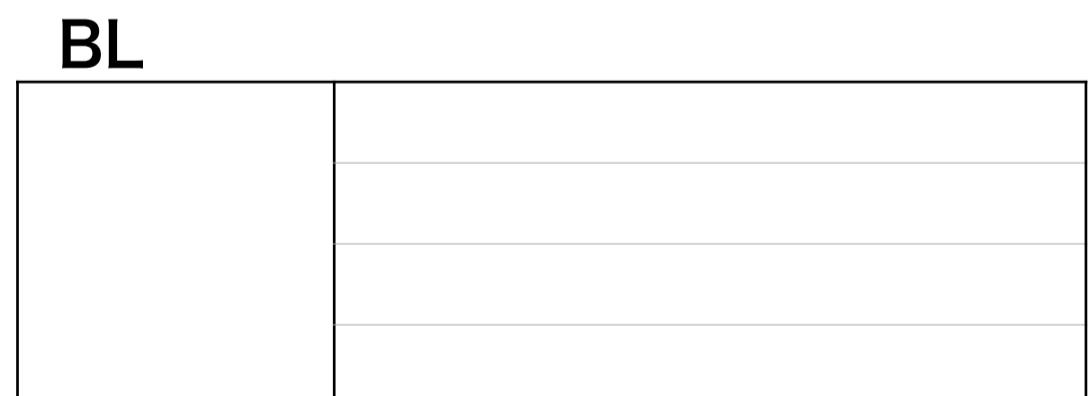
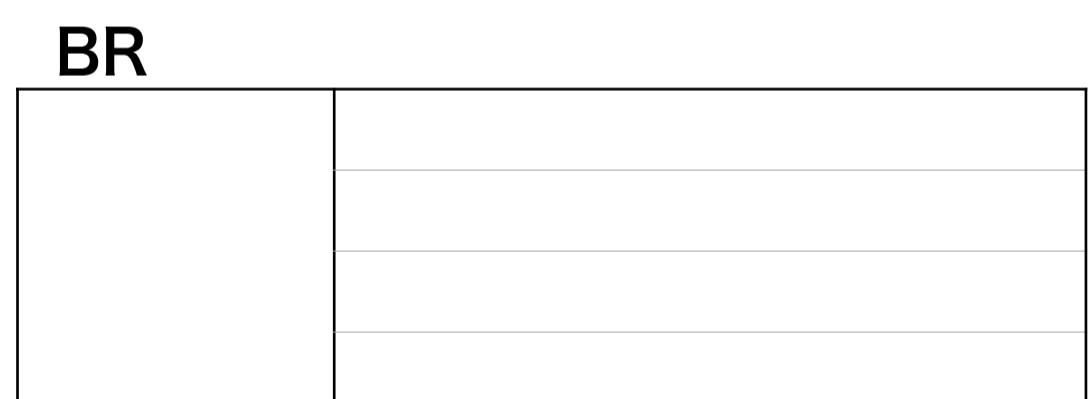
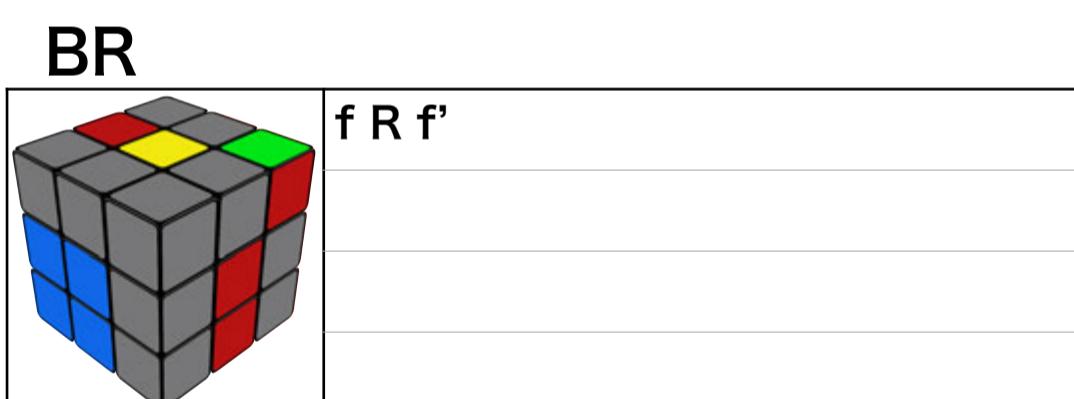
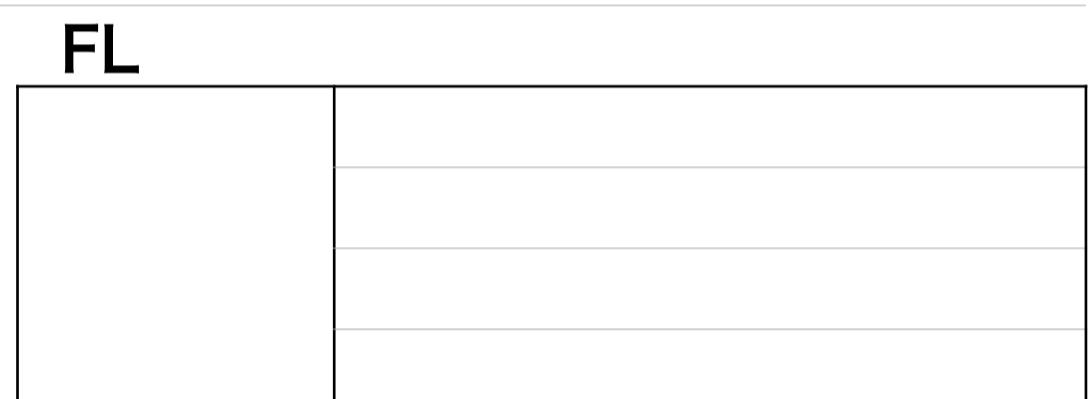
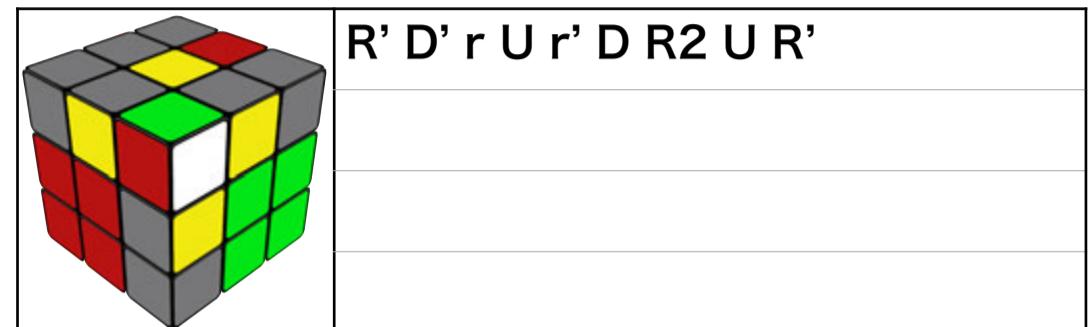


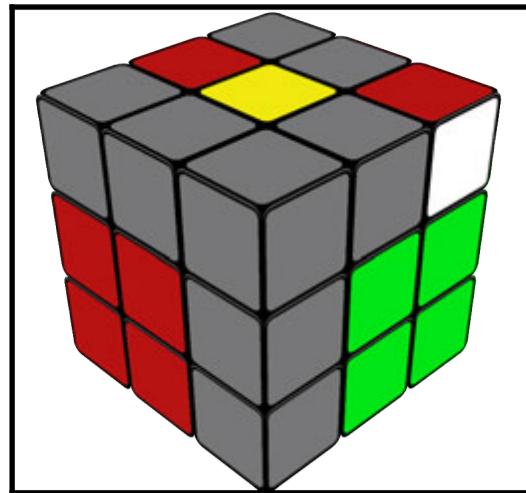
BL





#4





#4

	R U R' U2 R U' R'

	R U R' U R' F R F'

FL

	F U R U' R' U F'

FL

BR

	r' U R U' R' U' r

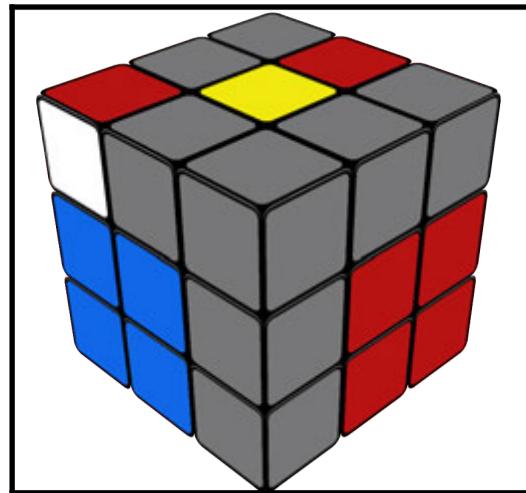
BR

	R' F R U R' U' F' R

BL

	L U L' U' L U2 L'

BL



#4

	$y' R' U' R U R' U'2 R$ $y L' U' L U L' U2 L$

	$y L' U' L U' L F' L' F$

	$r U' R' U R U r'$

FR

	$R' U' R d' L' U L$

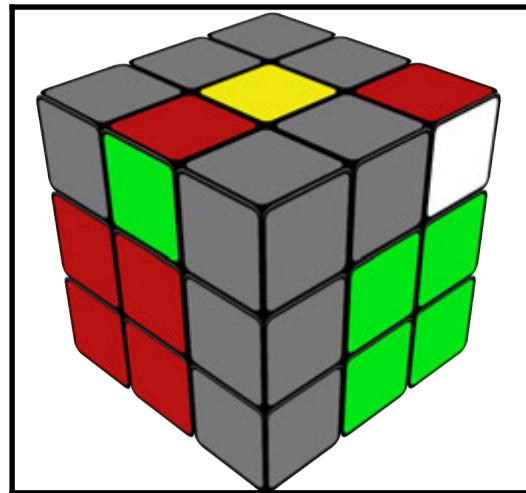
FL

	$R' U' R L' U L$

BR

	$R' U' R U R' U'2 R$

BL



#4

	R U'2 R' U2 R U' R'

	R U'2 R' U R' F R F'

FL	
	F U R U2 R' U F'

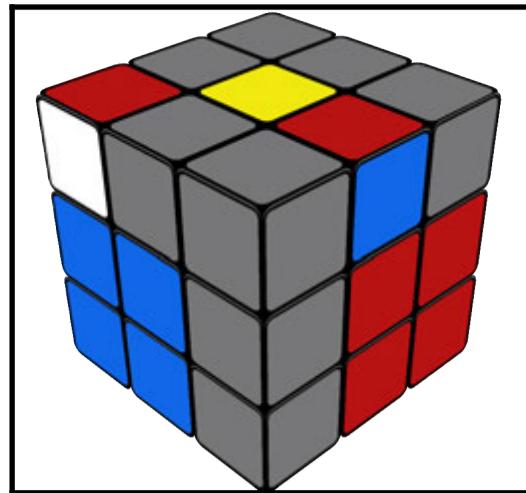
FL	

BR	
	r U'2 R'2 U' R2 U' r' F R U R2' U' R F'

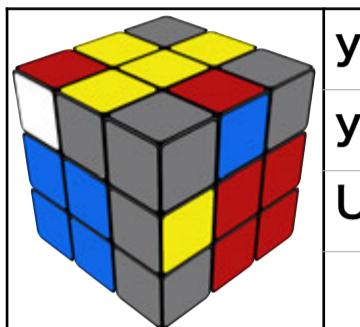
BR	

BL	
	L U2 L' U' L U2 L'

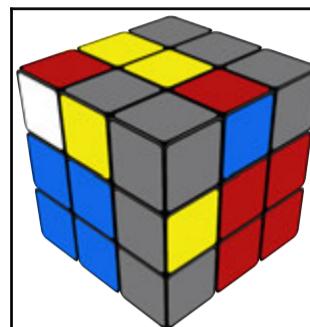
BL	



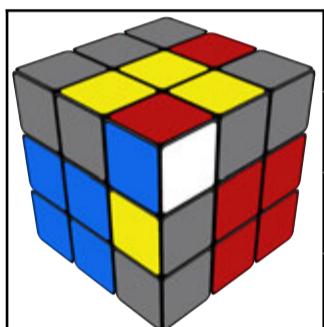
#4



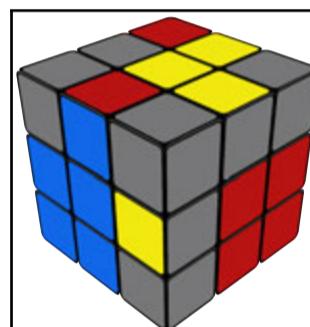
y' R' U'2 R U R' U'2 R
y L' U2 L U2 L' U L
U R' F R F' R U' R' U' R U R'



y L' U2 L U' L F' L' F

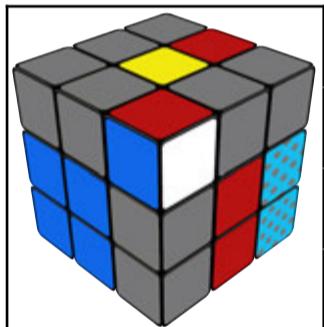


r' U2 R2 U R2' U r



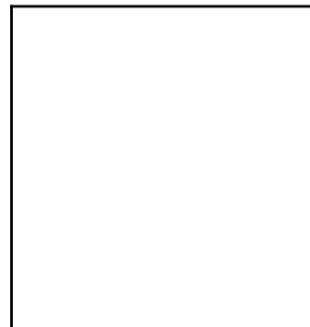
R' F R2 U' R' U' R U R'2 F' R

FR

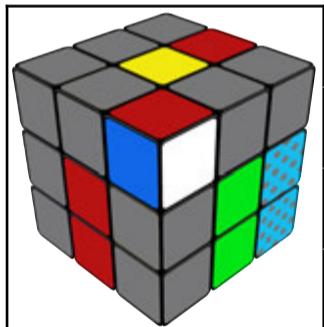


R' U'2 R d' L' U L

FR

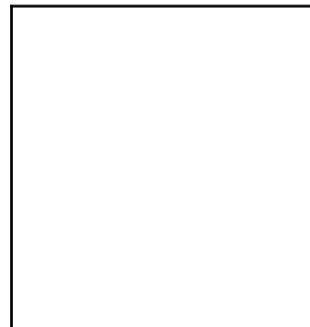


FL

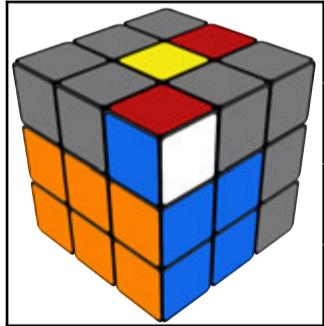


R' U'2 R L' U L

FL



BR



R' U'2 R U R' U'2 R

BR

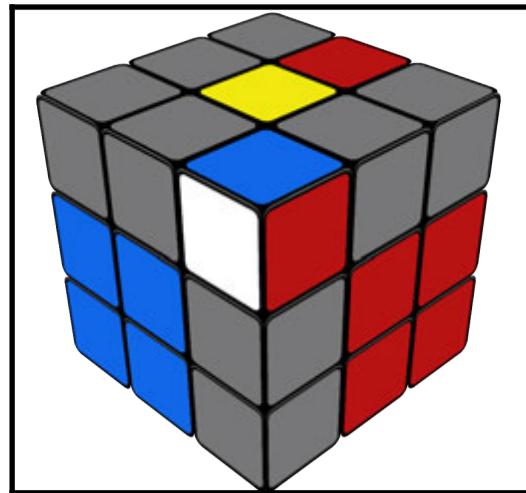


BL



BL





#4

	d R' U' R U' R' U' R

	F R U R' U' F' R U' R'

	r U R' U' r' R2 U' R'

	R U' R' d R' U' R

	y' R U' R2' U' R

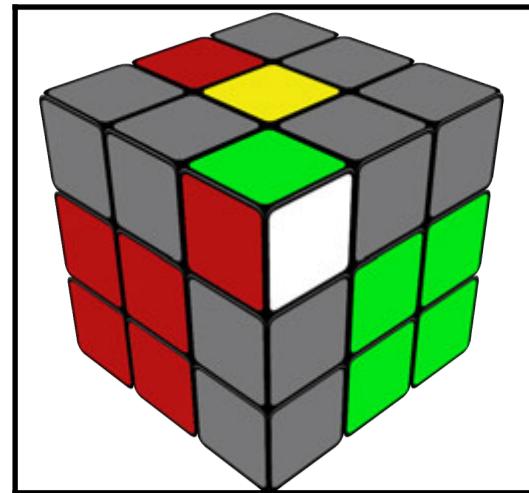
	R' U' R y L' U' L

	R U' R2' F R U F'
	R U' R2' F R U R' F' R (No Effect)

	F2 U R U' R' F2

	R' U' R U' R' U' R

	R U' R' d' R' U' R



#4

	R U' R' U' R U R'	

	r U' R' U' R U r'	

FR

	R U R2 U R'	

FR

FL

	F U' R U R' U2' F'	

FL

	L' U L U' F U F'	

BR

	R'2 U' F' U F R2	

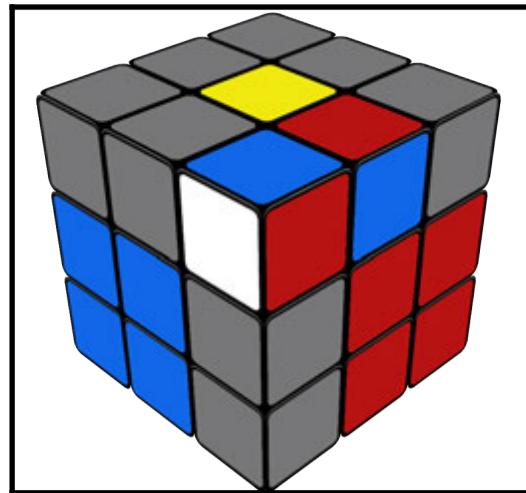
BR

	R U R' f R f'	

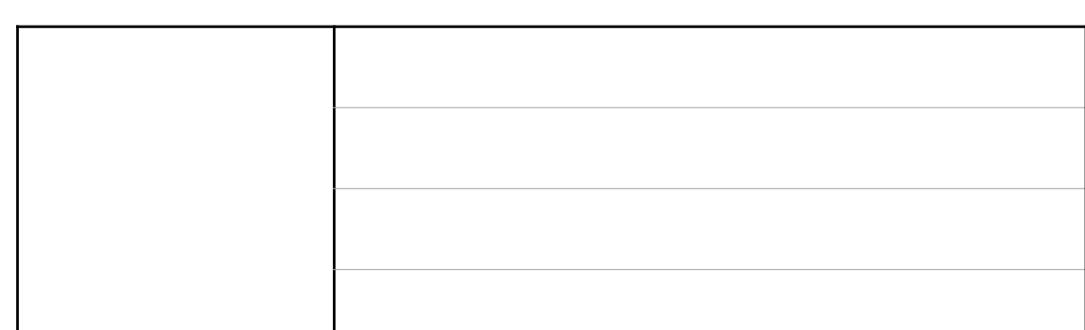
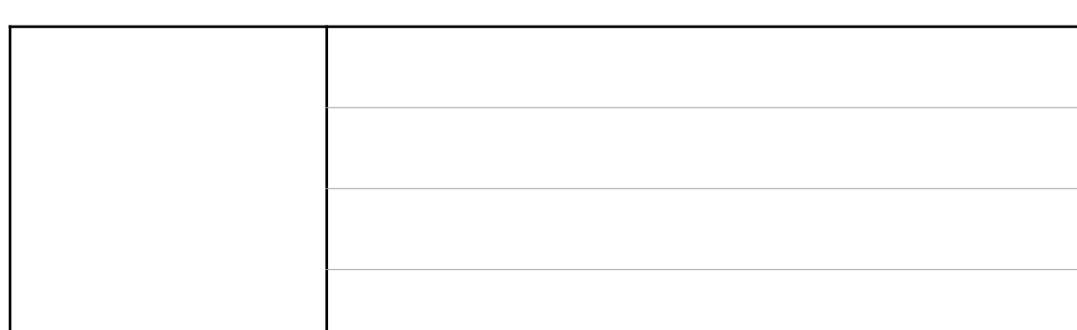
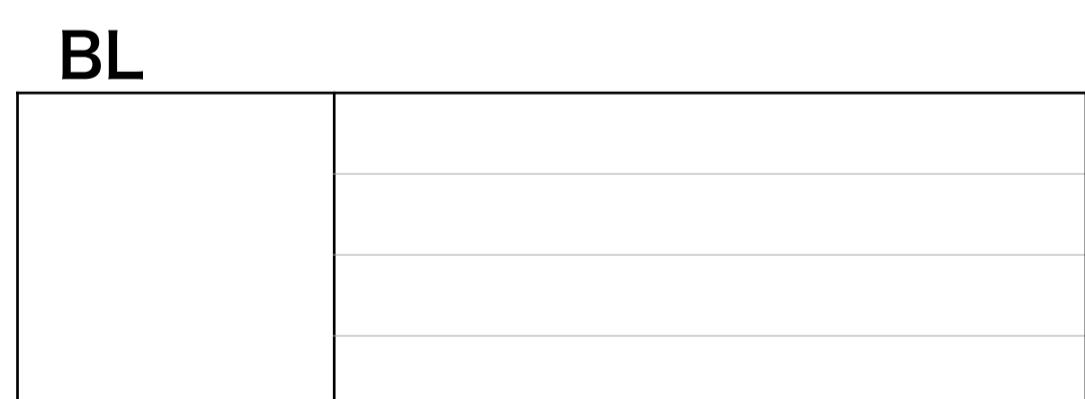
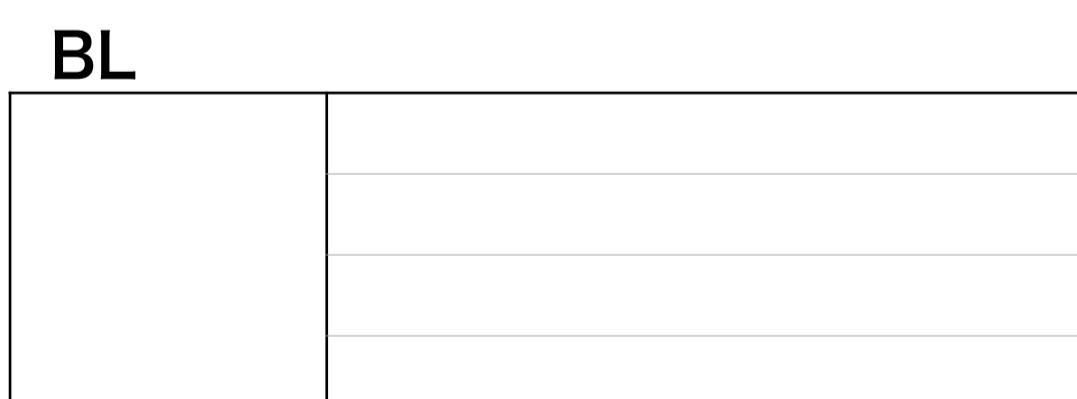
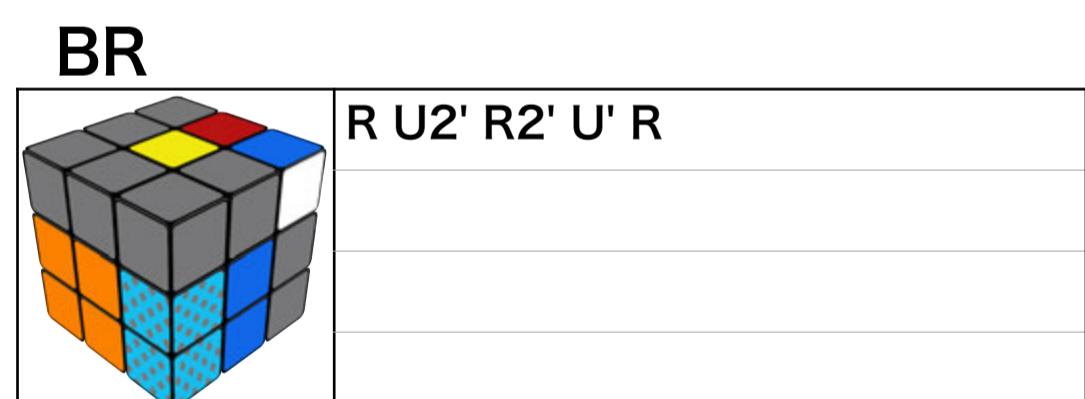
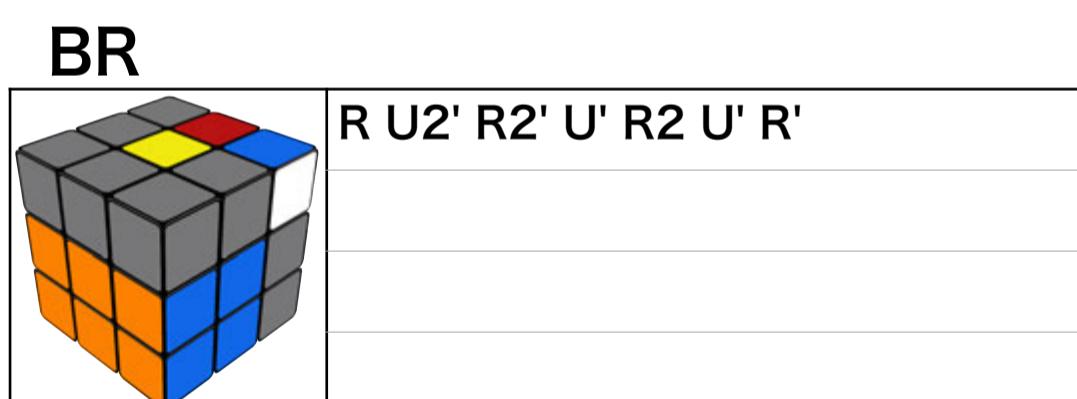
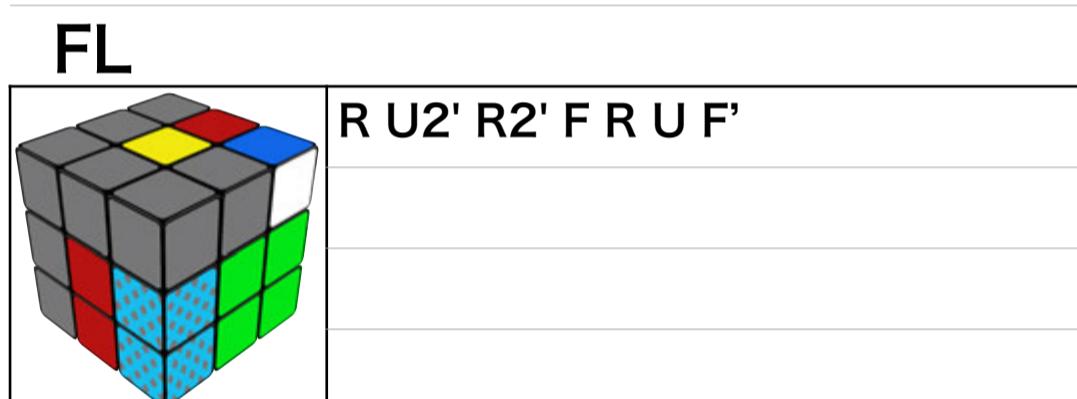
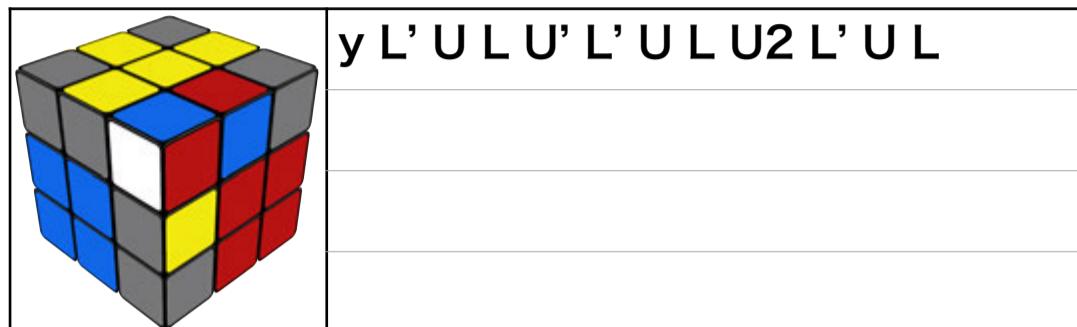
BL

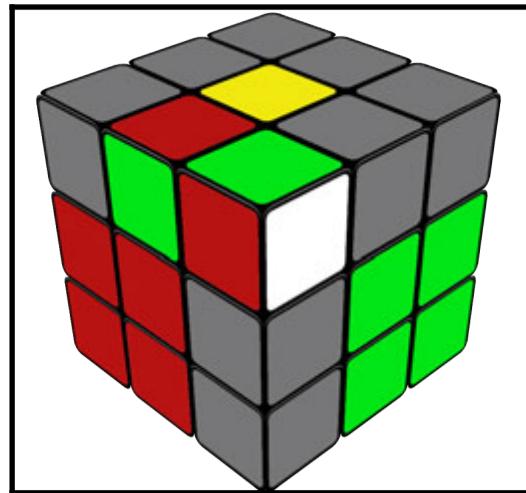
	L' U L2 U L'	

BL



#4





#4

	R U' R' U R U' R' U2 R U' R' R' U'2 R2 U R'2 U R

	R U' R' U R U' R' U R' F R F'

FR

	R' U'2 R2 U R'

FL

	F U' R U'2 R' U2 F'

FL

BR

	R' U' F R' F' R U' R

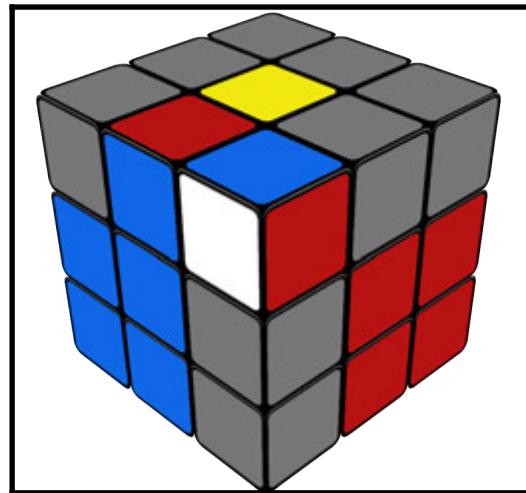
BR

BL

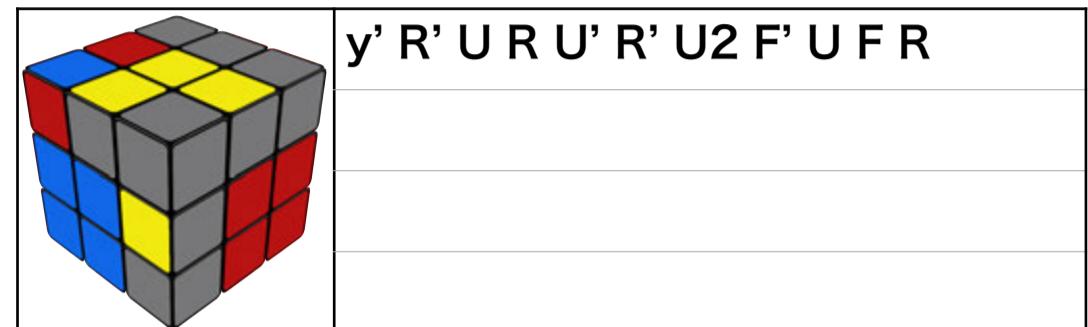
	L' U2 L2 U L2' U L

BL

	R U' R' U R U' R' U L U2 L'



#4



FR



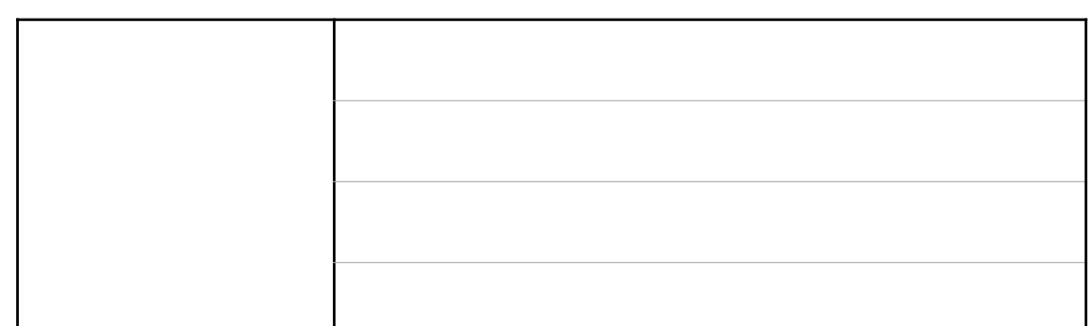
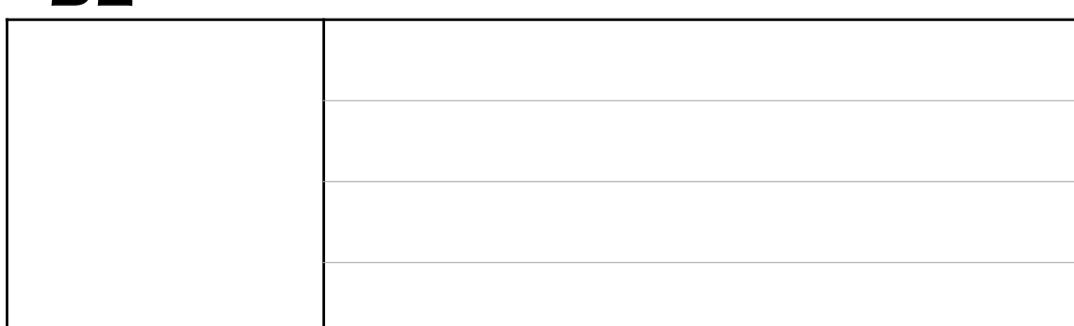
FL

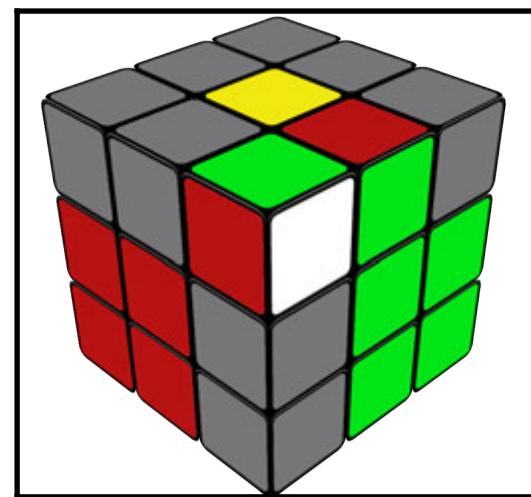


BR



BL





#4

	R U' R' U R U R'	

	R U' R' U R' D' r U r' D R2 U R'	

FR

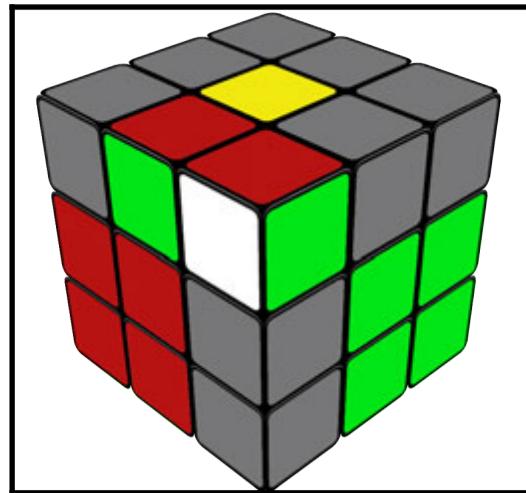
	F U' F' R U R'	

FL

BR

BL

	L U' L' U L U L'	



#4

	R' D' R U' R' D R U R U' R' R U2 R' U R U R' U R U' R'

	R B L U' L' B' R'

	R' D' R U' R' D F R F'

	F' U F U2' R U R' U R' F R F' U R U R'

FR

	R' U R U' R U R'

FL

	F U'2 R U R' U F'

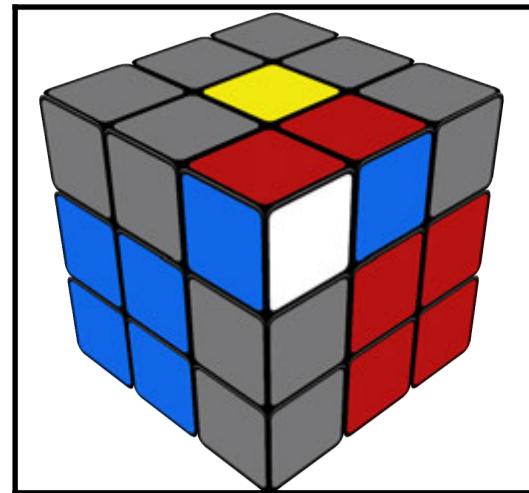
BR

	R'2 F R F' R U R' U'2 R R' U R F R' F' U' F R F'

	R' U R F R' F' U' R

BL

	R' U R U L U L'



#4

	M' U R U' r' U' R U R'

	R F R U R' U' F' R'

	R U' R' U2 F' U' F

	F U R U' R' F' R U R'
	F R' F' R2 U' R' U2 R U' R'

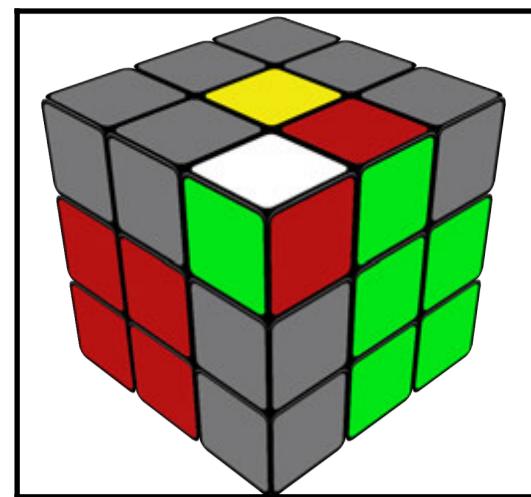
	R U2 R' F' L' U2 L F

	FR
	y' U R U' R' U R' U' R

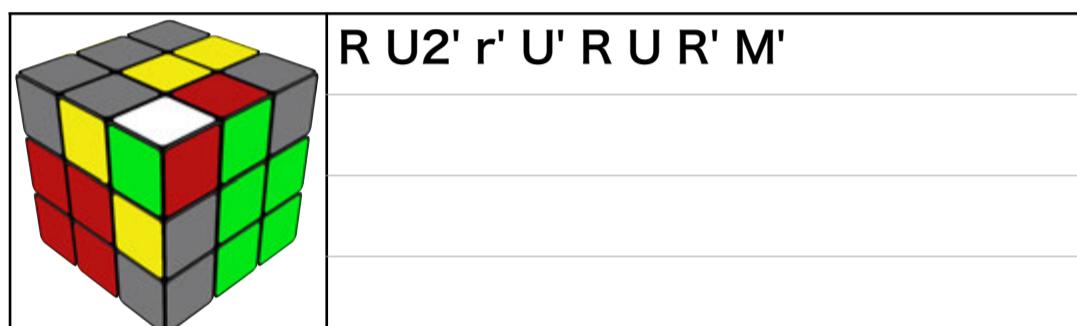
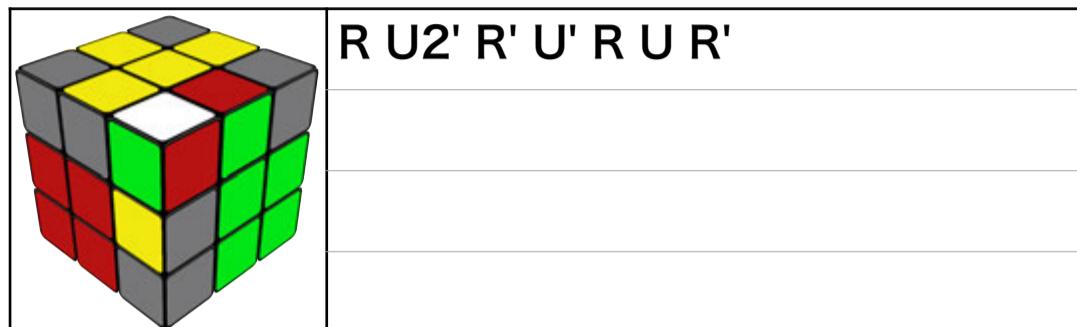
	F U' R U' R' U2 F'
	r' U' R' F R U r

	R U2 R U' R U R' U2 R'
	U R' U' R U R D R' U' R D' R'

	R U' R' y R' U' R



#4



FL



FL



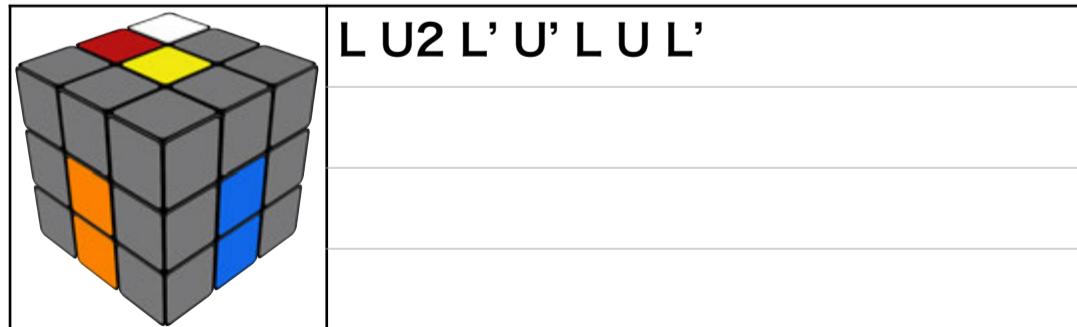
BR



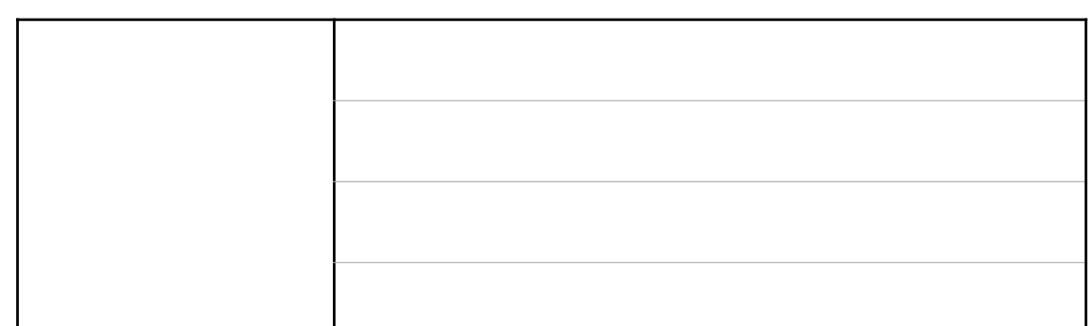
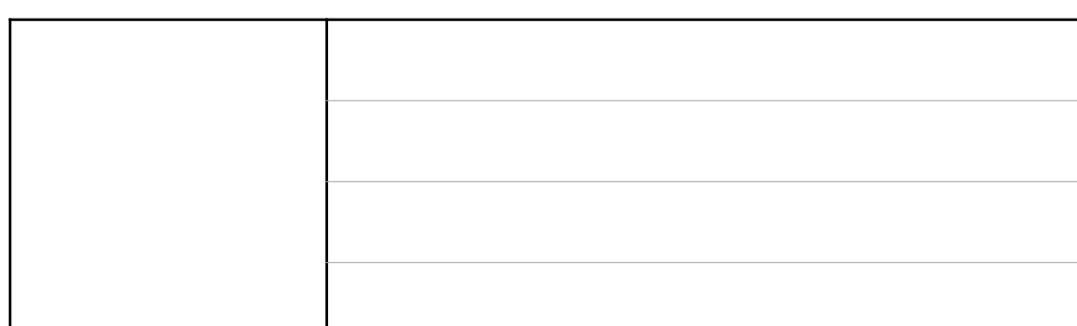
BR

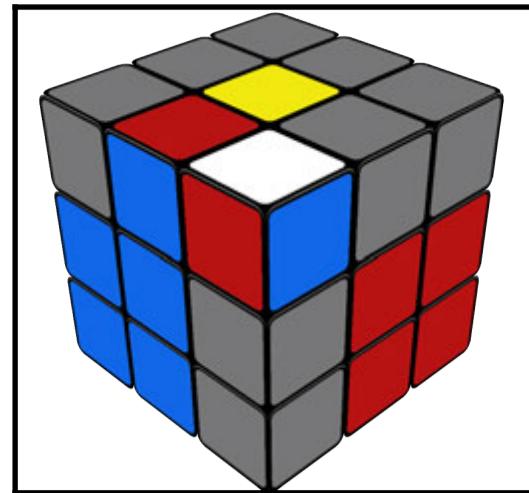


BL



BL





#4

	R' F R F' R U' R' U R U' R' y L' U2 L U L' U' L

	R' F R F' R U' R'2 F R F'

FL

FL

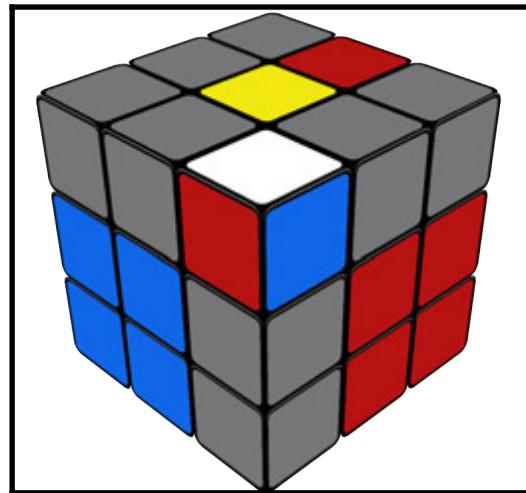
BR

	R' U2' r U R' U' R2 r'

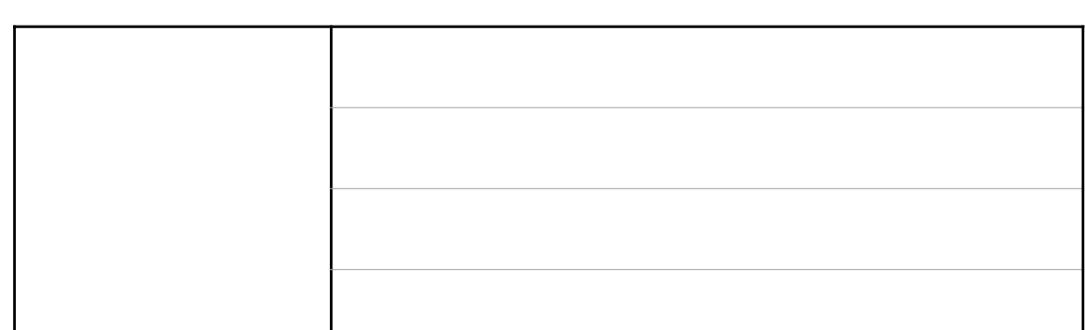
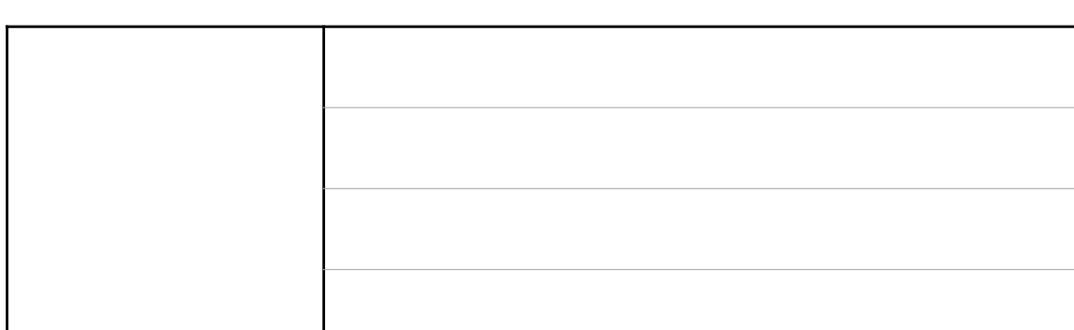
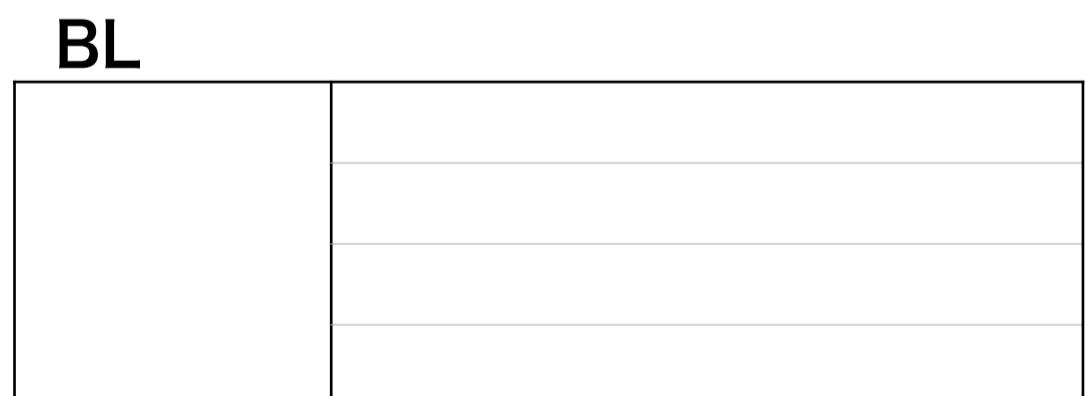
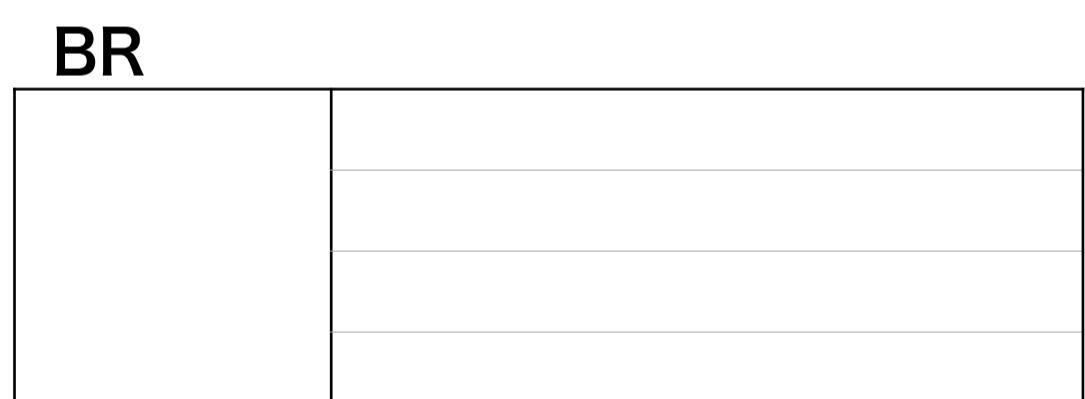
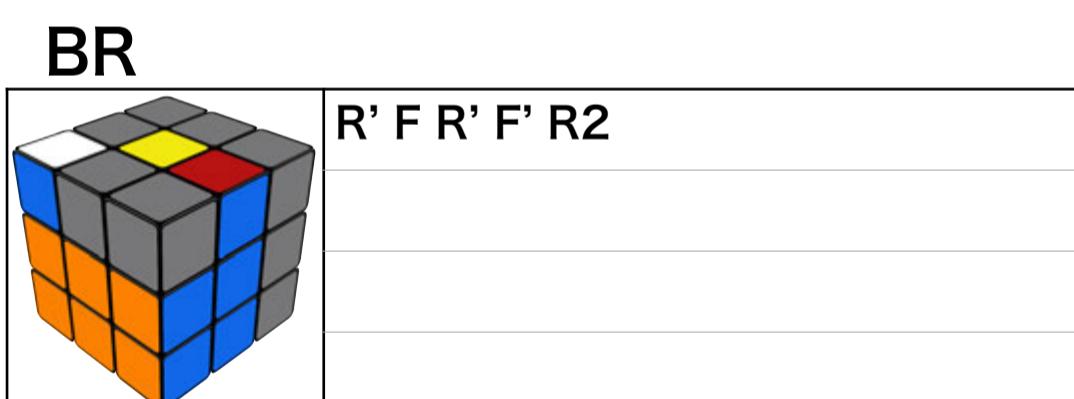
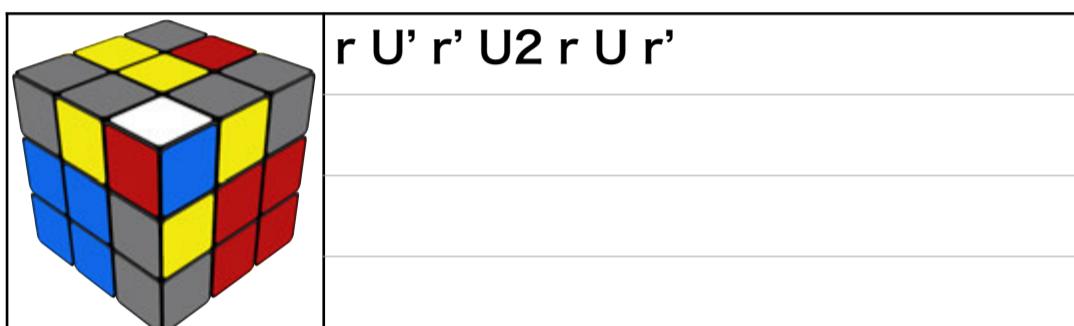
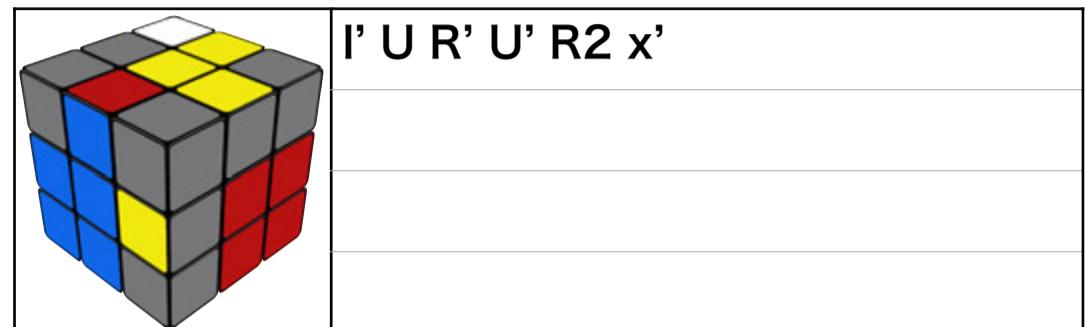
BR

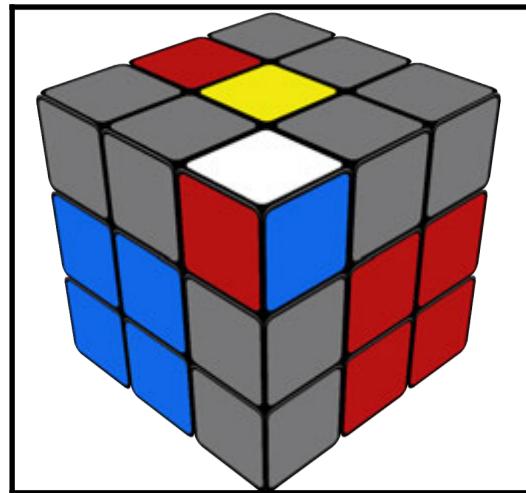
BL

BL



#4





#4

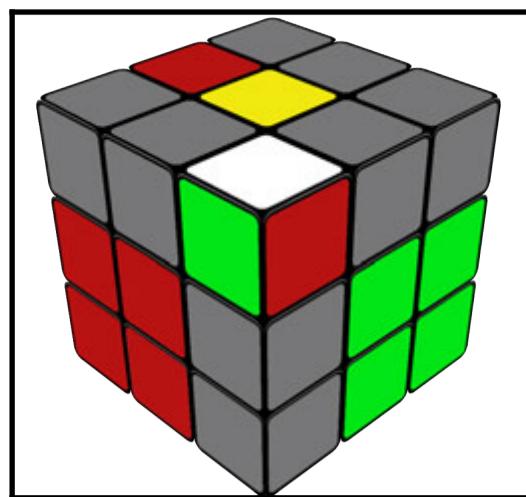
	y L' U2 L U' L' U L

	R U' R'2 F R F' R U' R'

	R U' R'2 F R F' U' R' F R F'

	R' U'2 R L' U2 L

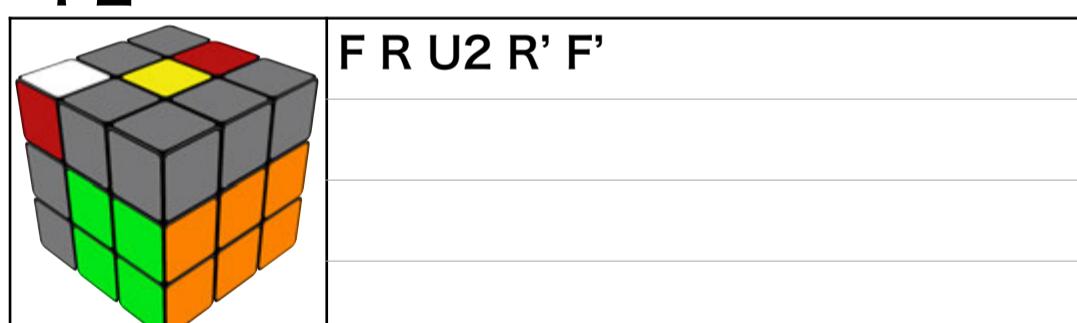
	R' U' F R' F' R2 R' U'2 R U' R' U R



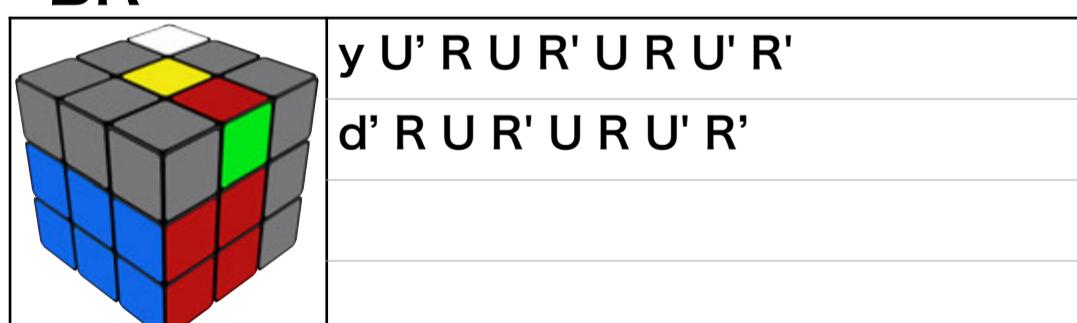
#4



FL

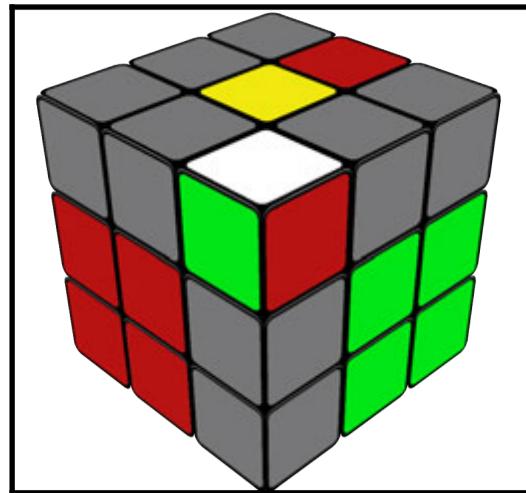


BR



BL





#4

	R U2' R' U R U' R'

	R U2' R2' F R F'

FL

	F U'2 F2 r U r'

BR

	y U R U2' R' U R U' R' d' R U2' R' U R U' R'

BR

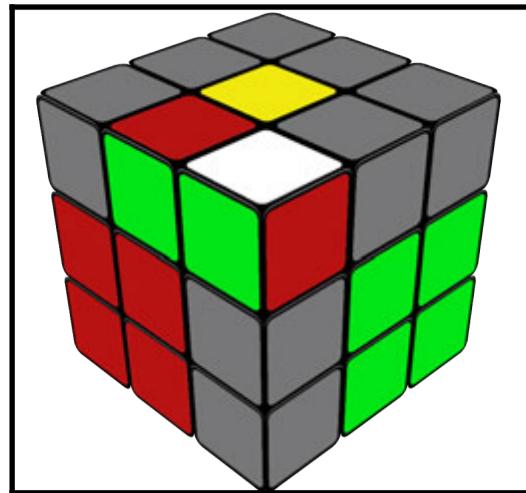
	R U'2 R' U R'2 F R F' R

BL

	L U2 L' U L U' L'

BL

	R U'2 R' L U2 L'



#4

	R2 U'2 R' U' R U' R'2 U' R U' R' U' R U' R' U R U' R' U2 R U' R2' D' R U2 R' D R
--	--

	R U' R' U' R U' R' R' F R F'
--	------------------------------

	F R' F' R U R U R'
--	--------------------

--	--

FR

	R' U' R U' R' U R2 U' R'
--	--------------------------

FR

	r U' r' F R U R'
--	------------------

FL

	F U' R U R' U R U2 R' F'
--	--------------------------

--	--

BR

	R' U' R U' R' U R' F R F' R
--	-----------------------------

BR

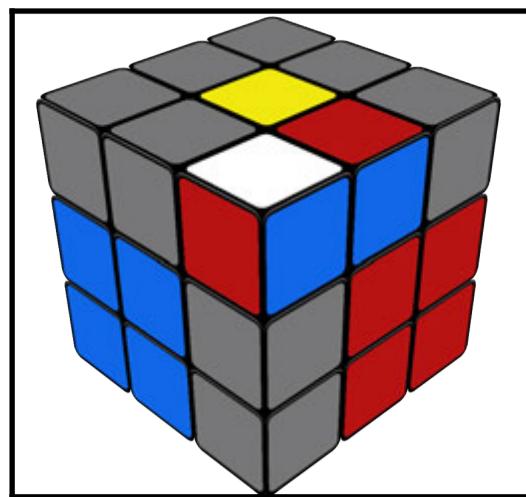
	F R U R' U' F' R' U' R
--	------------------------

BL

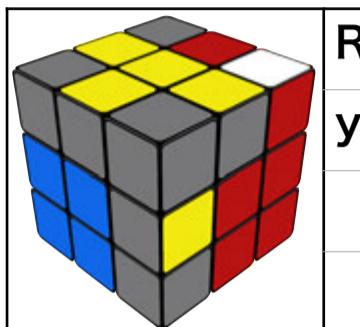
	L2 U2 L' U' L U L'2
--	---------------------

BL

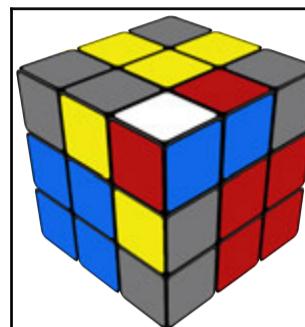
	R U' R' U' R U R' L U L'
--	--------------------------



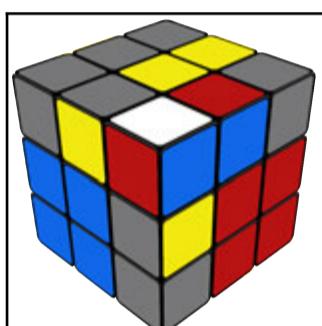
#4



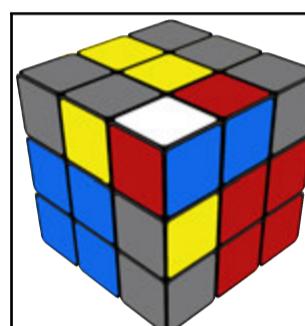
R U R' 2 F R F' R U' R'
y L' U L U L' U L U' L' U L



F U R U' R' F' R U' R'

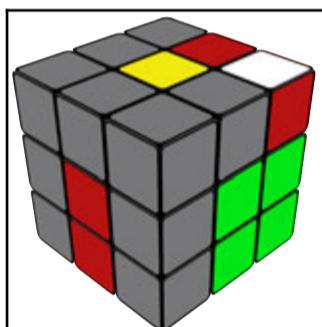


F U R U' R' F' U' R' F R F'
U' y' x' U' R U R' x U' R' U' R



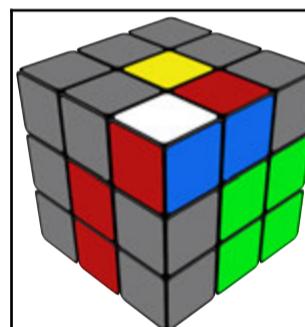
y' R' U' R' F R F' U' 2 R

FL



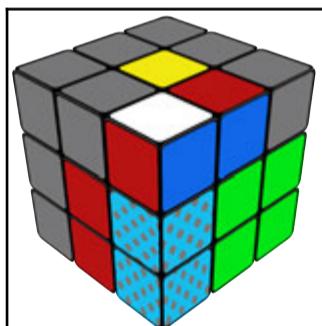
L' U' L U L' U L U 2 L' U L

FL

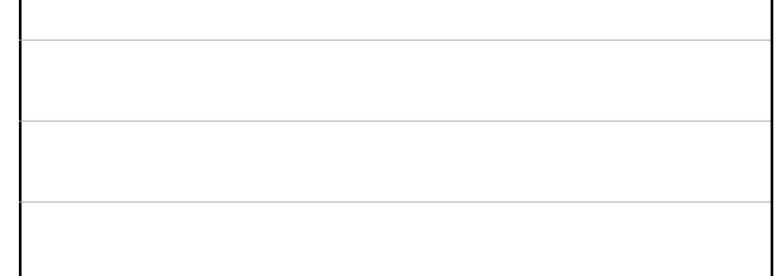


L' U L U L' U L U' L' U L

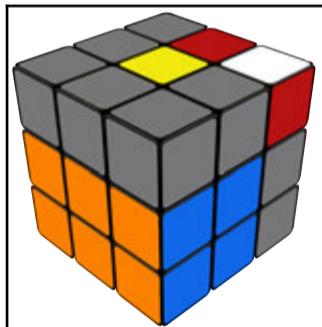
FL



R U' R' L' U' L U L' U 2 L

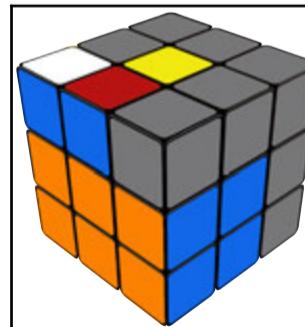


BR



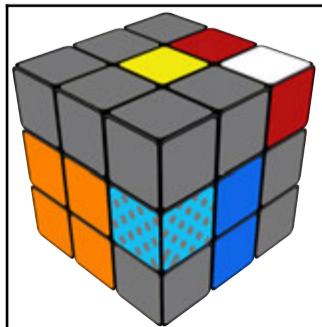
R' U' R' F R F' U' 2 R
U' x' U' R U R' x U' R' U' R

BR



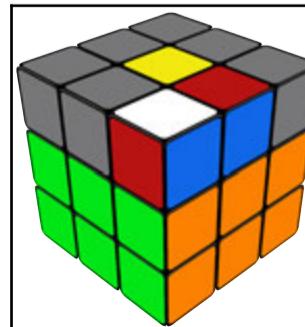
R' 2 U' 2 R U R' U R 2

BR

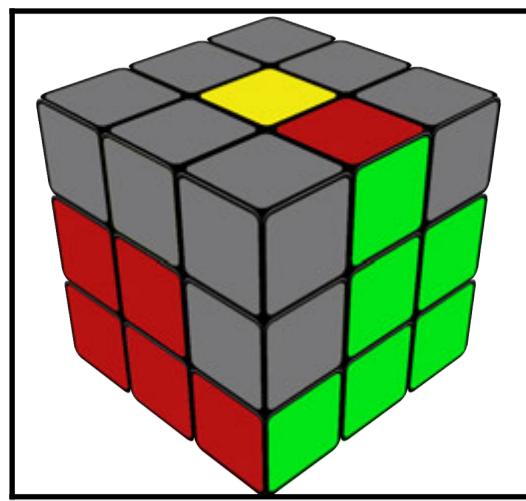


R' U R D' R U' R' D

BL



r U R' U R U' 2 B r'



#4

	F' R U R' U' R' F R

	R' F R F' R U R'

	R' F R F' R U'2 R' U' R' F R F'

	FR
	R2 U' R' U R2

	FR
	L' U L R U' R' L' U' L R U R' U2 L' U2 L U R U R'

	FL
	r' F r F' r U r'

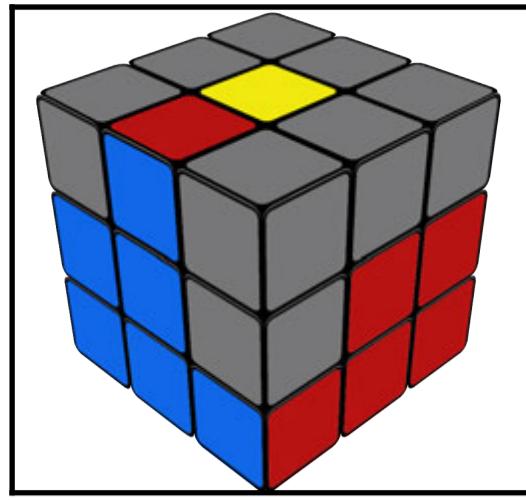
	FL
	y L' U2 L U' L U L' y U2 L' U L U' L U2 L'

	FL
	R' u' R' u R

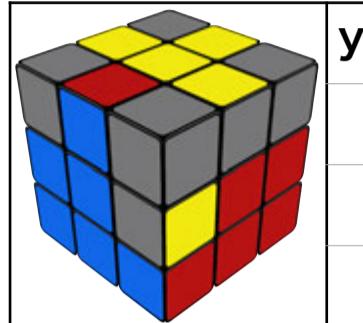
	BR
	y L' U L R U' R'

	BL
	R' F R F' U2 L U L'

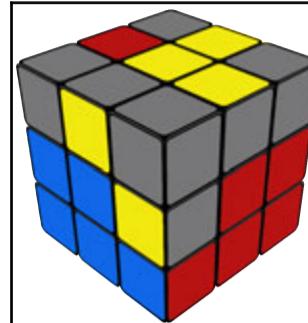
	(FL) D' R U' R' u (BR) D R U' R' u'



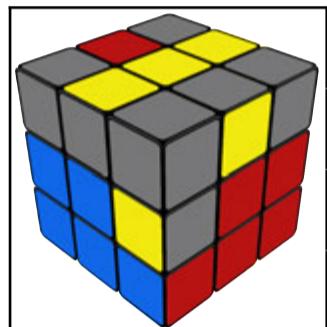
#4



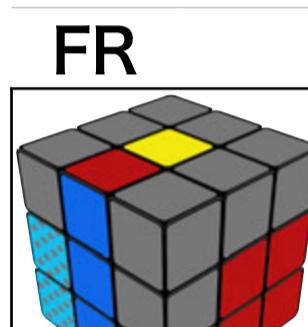
y L' U L U L' U L U' L' U' L



(FL) R U' R' d' L' U L



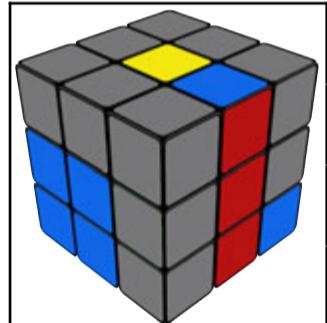
R U' R' F R' F' R



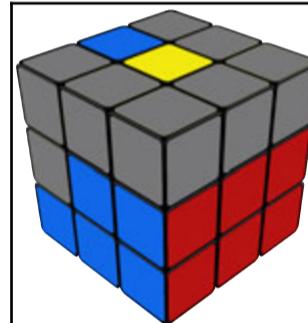
FR

F r U r' F'

FR



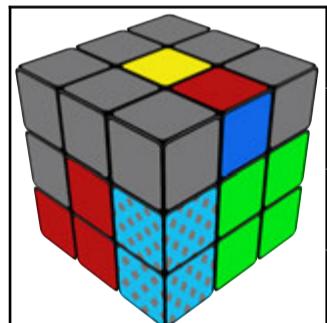
R' U'2 R U' R U R'



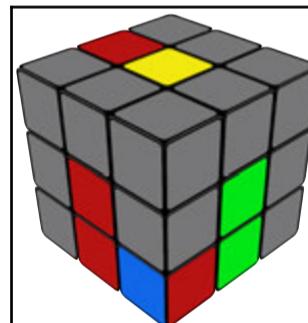
FL

L' U L U L' U L U' L' U' L
r U r' U' r' F r F'
U F U' F' U' L' U L

FL



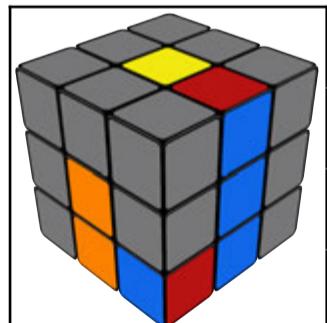
F' R' F R F



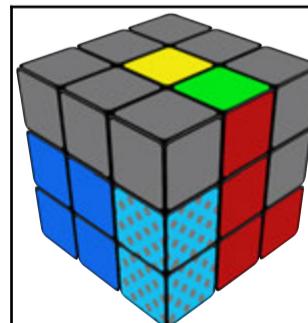
FL

R U' R' L' U L

BR



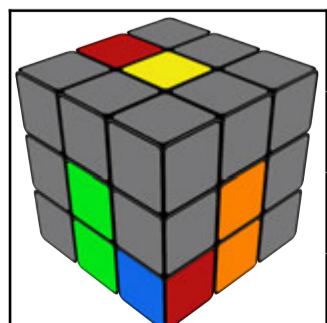
R U'2 R' U R' U' R
U2 R U' R' U R' U'2 R



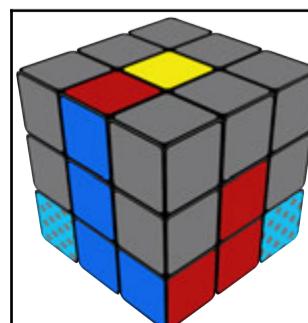
BR

R'2 U R U' R2
R U R U R' U' R'

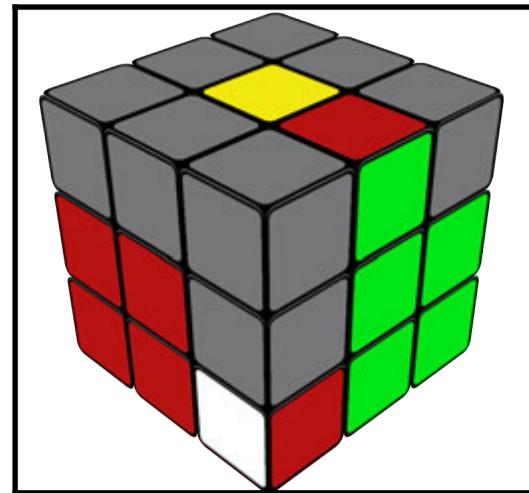
BL



R U' R' y R' U'2 R



(FL) u U' L' U L D'
(FL) y U' D L' U L D'
(BR) D F R' F' R u'



#4

	R U' R' U R U' R'

	R U' R'2 F R F'

	y' R' U2 R' F R F' R

FR

	L' R U' R' L L' U' L U R U' R'

FL

	F U' F2 r U r'

FL

	R U' R' d' L U2 L'

BR

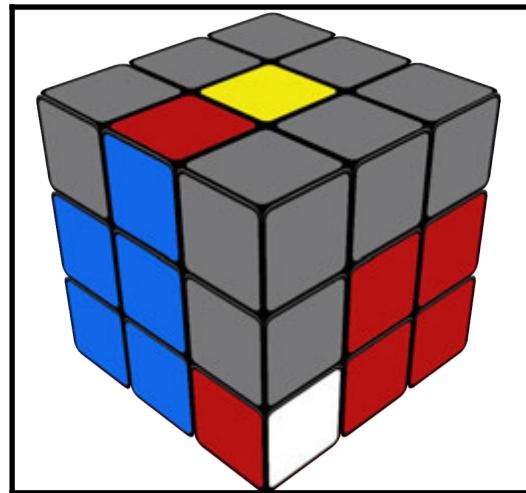
	R' U2 R' F R F' R

BR

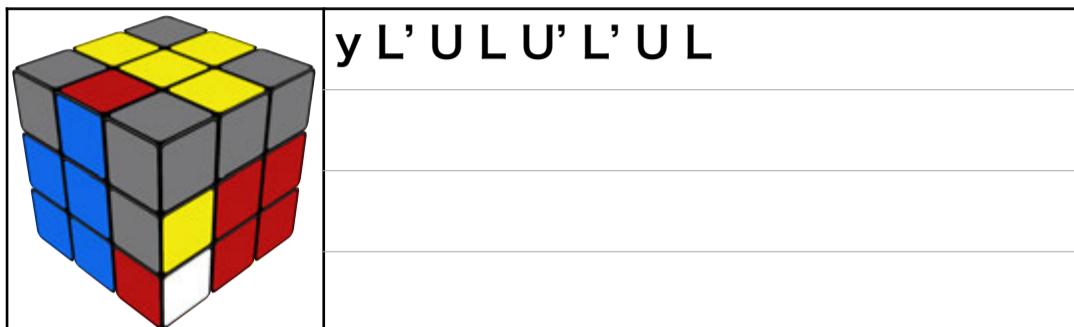
	R U' R'2 F' U' F R

BL

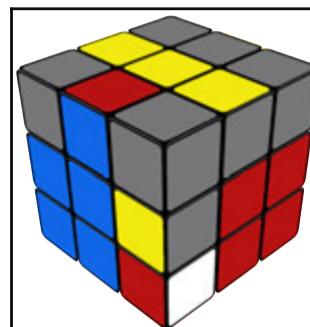
	R U' R' L U2 L'



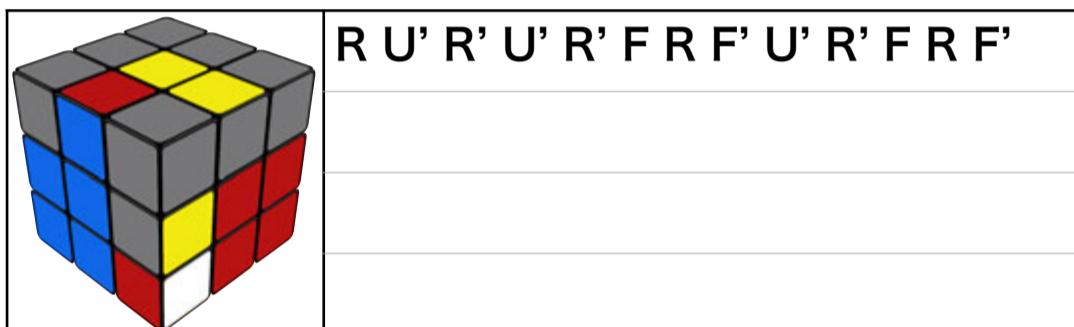
#4



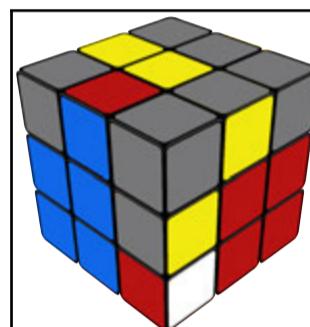
y L' U L U' L' U L



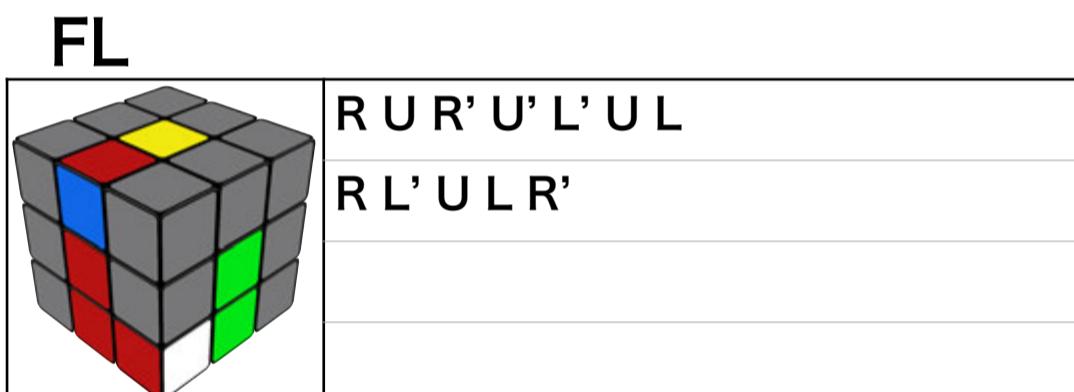
R U R' U2 y L' U L



R U' R' U' R' F R F' U' R' F R F'

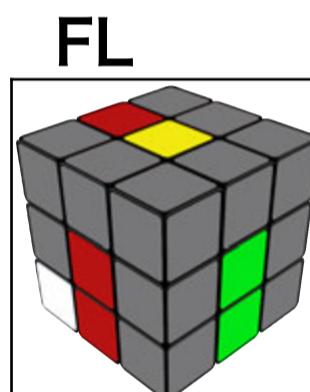


y L' U L2 F' L' F

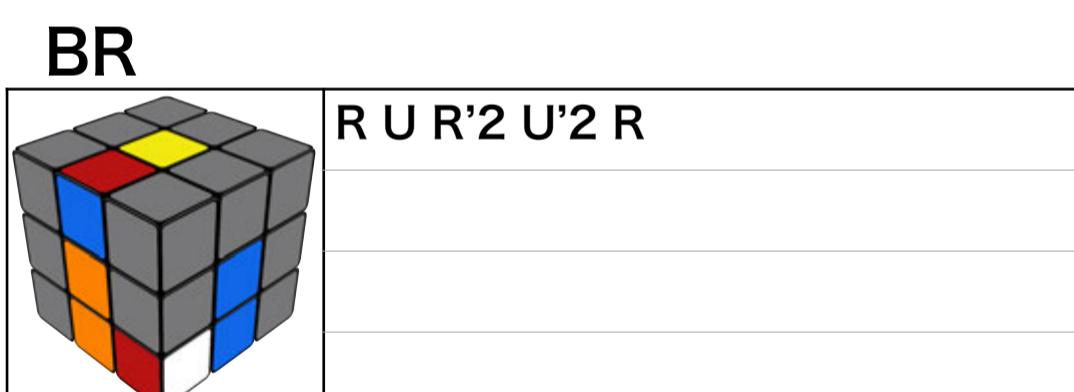


R U R' U' L' U L

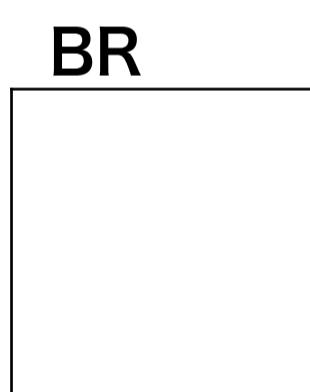
R L' U L R'



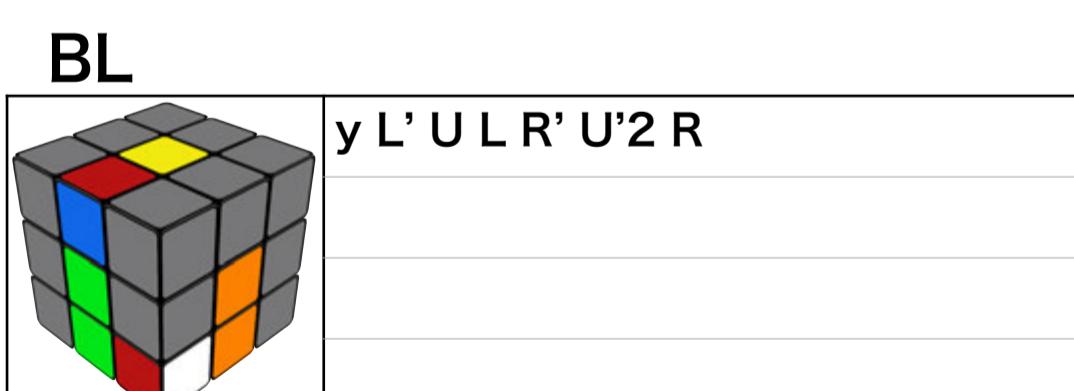
L' U L U' L' U L



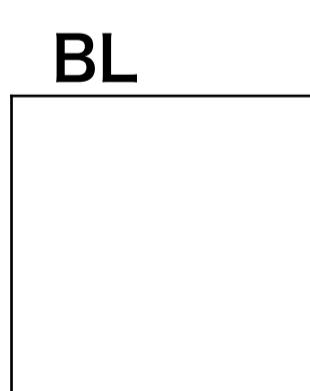
R U R' 2 U' 2 R



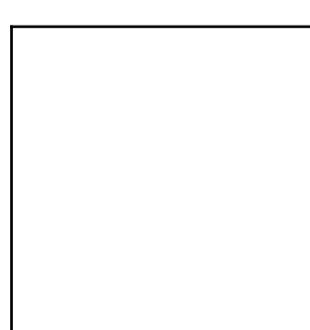
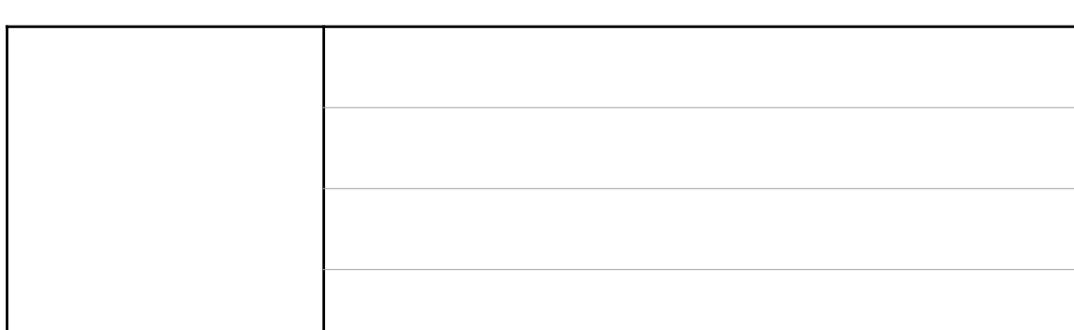
BR

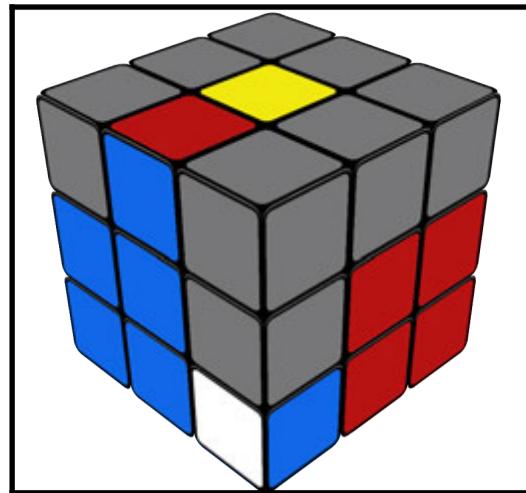


y L' U L R' U' 2 R

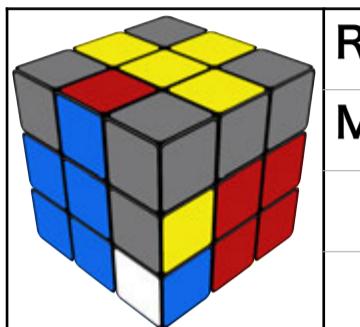


BL

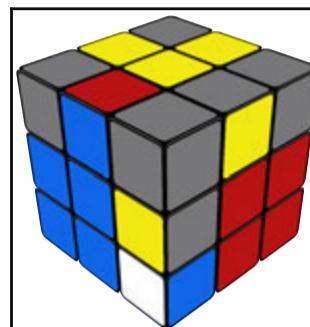




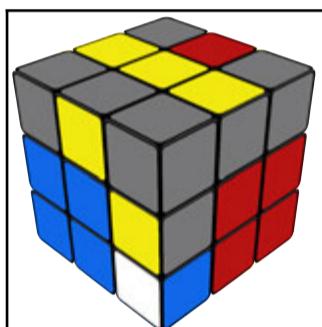
#4



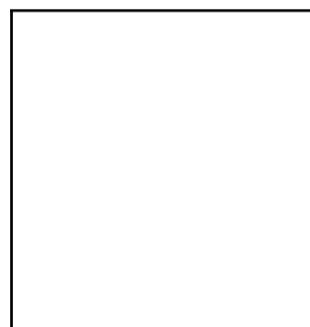
R' F R F' U R U' R'
M' U R U' r' U R U' R'



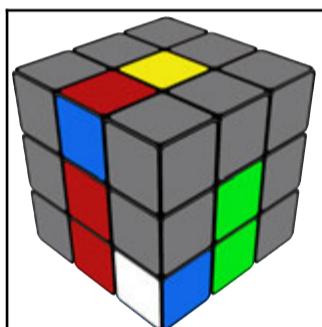
(R' F R F')*2



R U' R' F' U' F

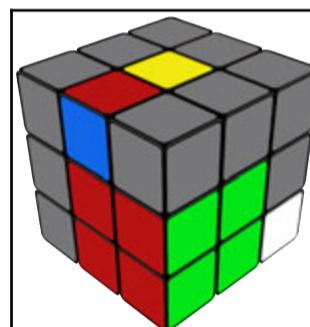


FL



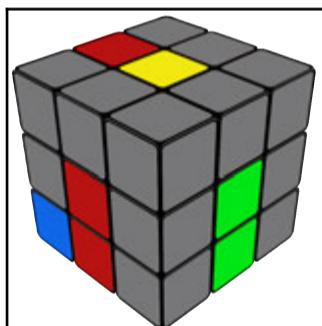
R' F R2 U' R' U F'

FL

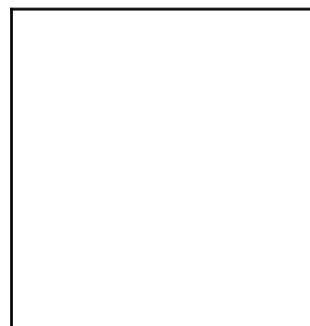


R' U'2 R L' U' L

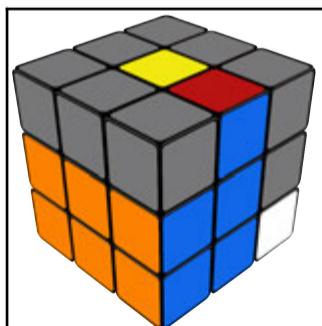
FL



L' U' L U L' U' L

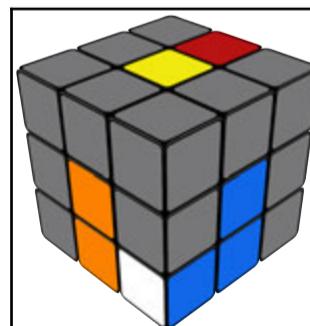


BR



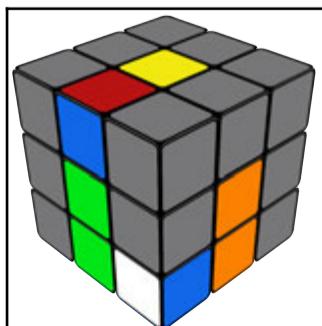
R' U' R U R' U' R

BR

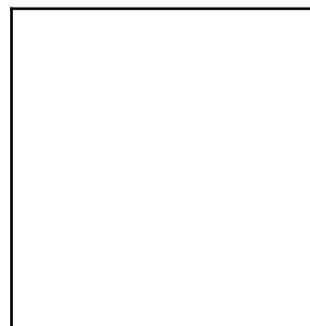


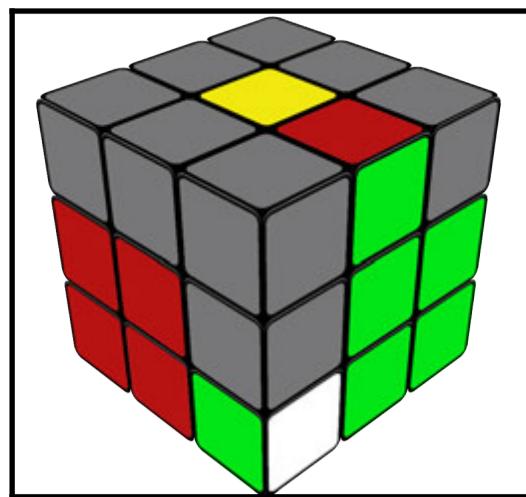
R U' R' U' R' U' R

BL

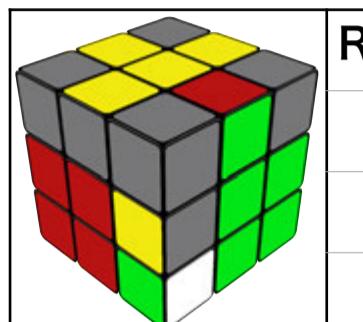


R' F R F' L U2 L'

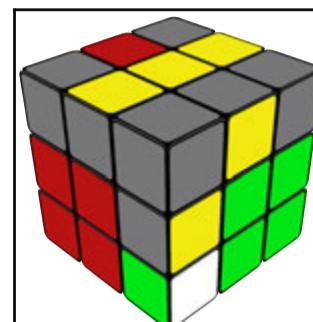




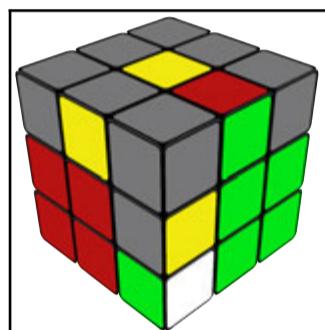
#4



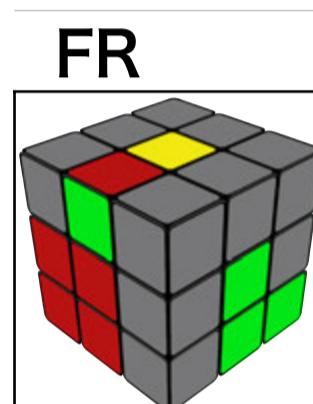
RUR' U' RUR'



F' UFRUR'



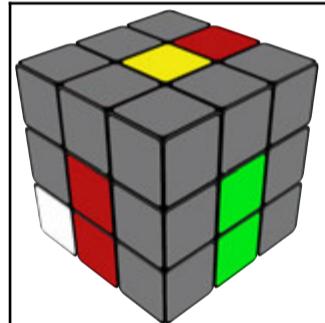
RUR' U' R' D' r Ur' D R2 UR'



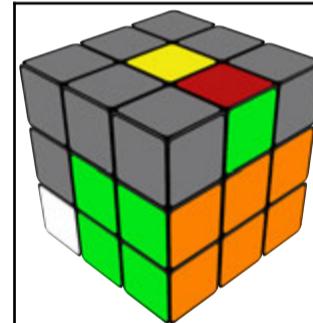
FR

R' URURUR'

FR



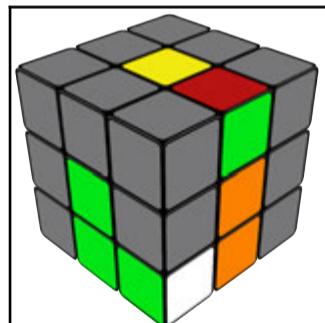
L' ULU'RUR'



FL

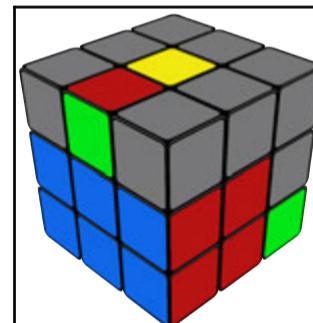
F' U' R U2 R' F'

FL



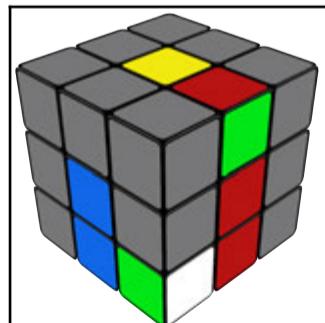
RUR' FUF'

BR



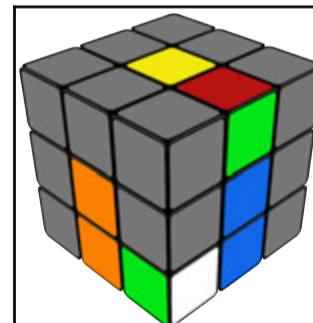
R' UR f R f'

BR



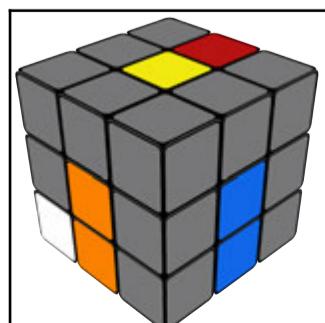
RUR' U'2 f R f'

BL



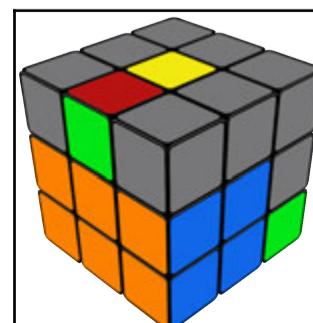
RUR' ULUL'

BL

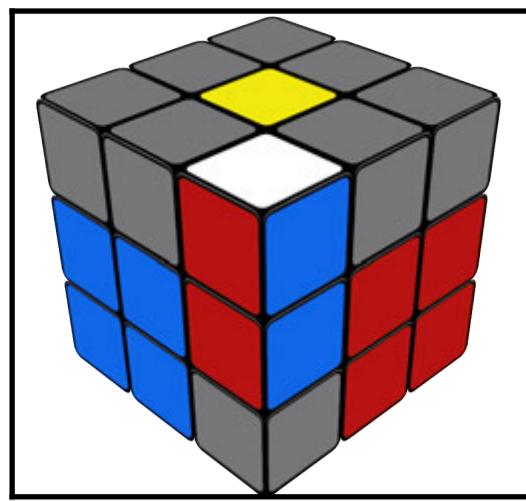


L' ULULUL'

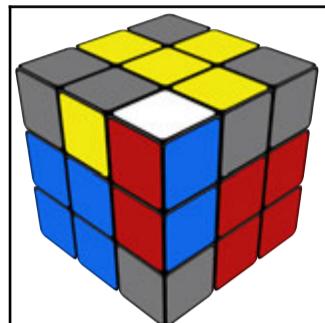
BL



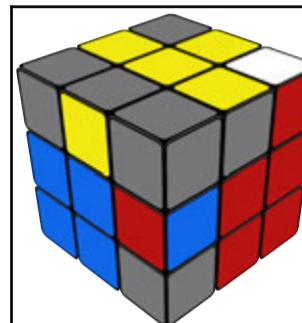
RUR' U' LUL'



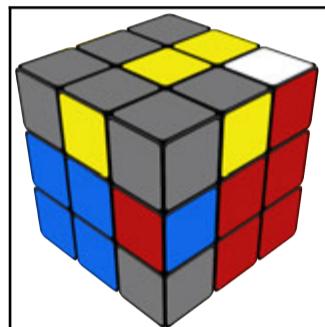
#4



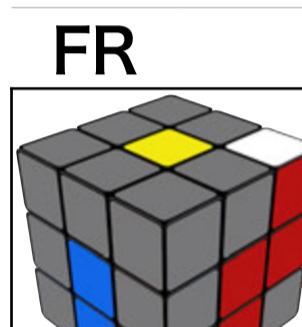
(BR) R U' R' y' R' U'2 R
(FL) R U' R' y L' U2 L



R' F R F' R U' R'



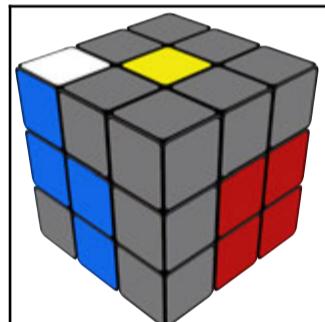
R' F R F' U' R' F R F'



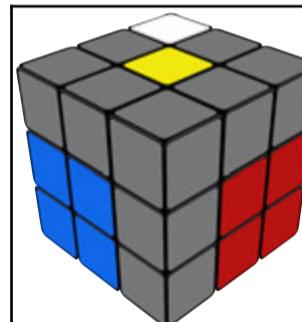
FR

R' U R2 U' R'

FR

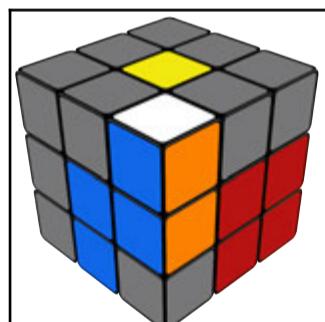


L' U L U2 R U' R'

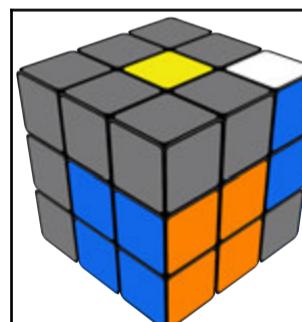


R u R' U R u' R'

FL

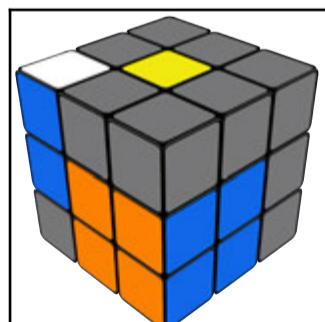


F2 r U2 r'

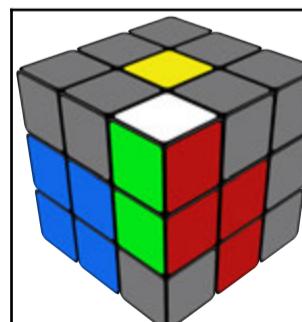


F R' U R F'

BR

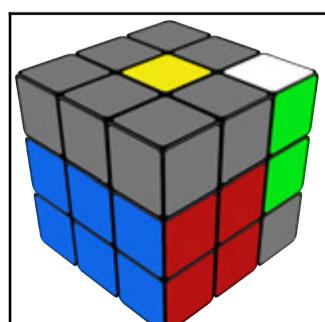


R' F U' F' R

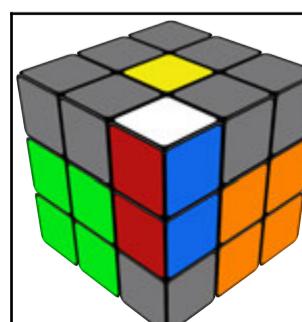


R U' R'2 U R

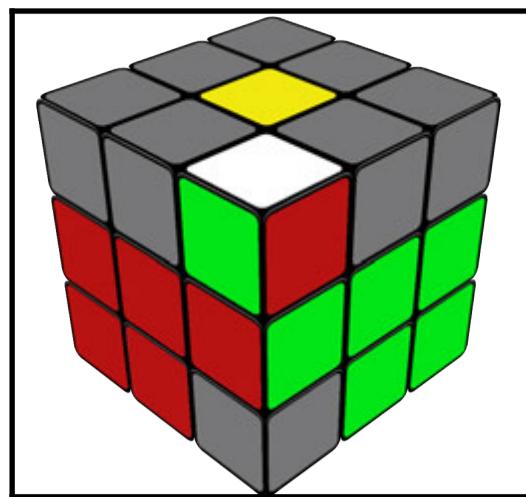
BR



R' U R' F R F' R



r U' B U r'



#4

	(U R U' R')*3 x (R' U R U')*3 (R' F R F')*3
--	---

	(U R U' R')*2 R' F R F'
--	-------------------------

	F R' F' R U' R U R'
--	---------------------

	FR R'2 u R2 u' R'2
--	-----------------------

	FL F U' R U R' U F'
--	------------------------

	FL R' F R2 U' R' U2 F'
--	---------------------------

	BR (R' U' R U)*2 R' U' R
--	-----------------------------

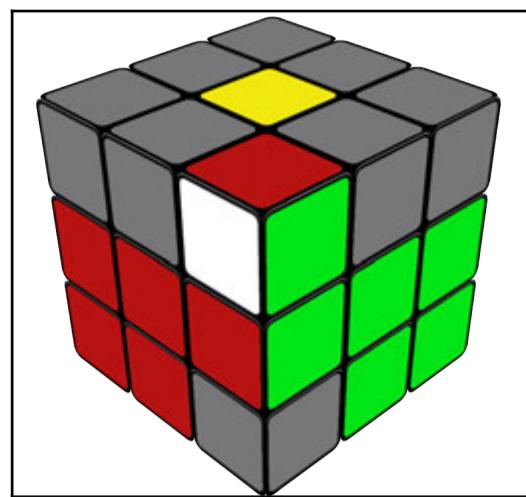
	BR R' F R F' R' U' R
--	-------------------------

	BR R2 u' R'2 u R2
--	----------------------

	BL (U R U' R')*2 L U2 L' U' F R' F' R U L U L' y' R' U' R U R' U' R U' L' U' L
--	---

	BL r U' r F L U L'
--	-----------------------

	(FL) u R U'2 R' U R U' R' D' (BR) u' U' R U R' U R U' R D
--	--



#4

	R U' R' U2 R U' R'

	R U' R' U R' F R F'

FR

	R' U'2 R F' U' F

FR

	R' u' R' u R L' U' L d R' U' R

FL

	R' D R U' R' D' R U2 R' D R U R' D' R

FL

	R U' R' F U'2 F'

BR

	R' U'2 R U' R' U' R

BR

	D' R U' R' D

BR

	F' R' U' R F

BR

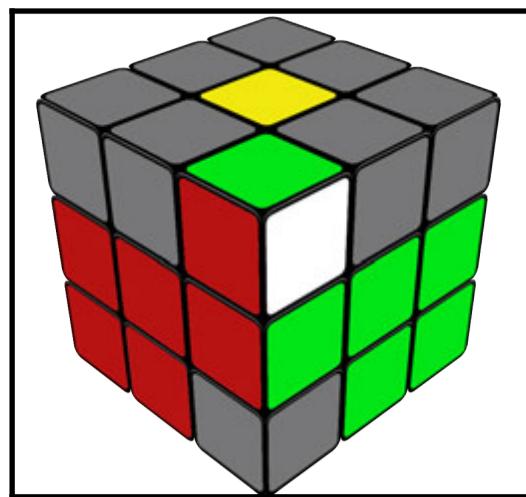
	L' U' L R' U' R

BL

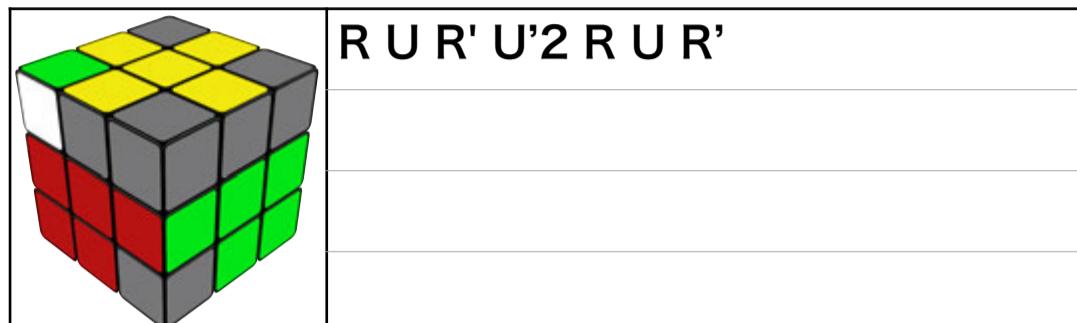
	R U' R' U L U2 L'

(FL)

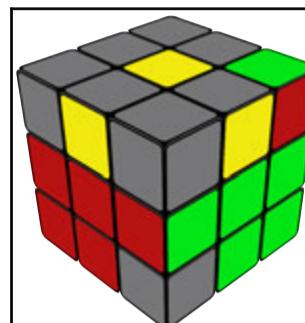
	u R U' R' D'



#4



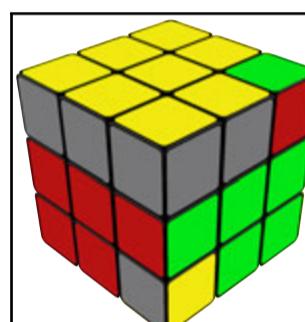
R U R' U'2 R U R'



R U2 R' U R' D' r U r' D R2 U R'

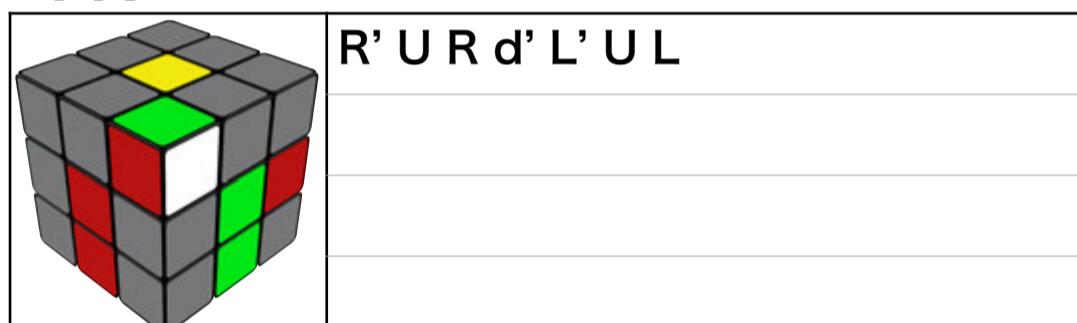


R' D' R U' R' D R



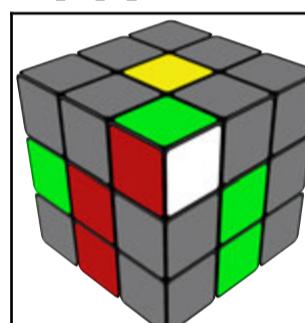
R' D' R U R' D R

FR



R' U R d' L' U L

FR



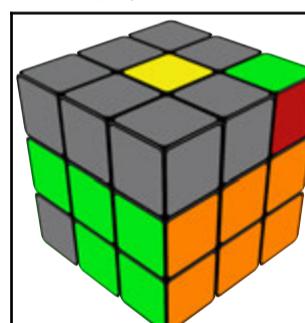
F U'2 F' R U R'

FL



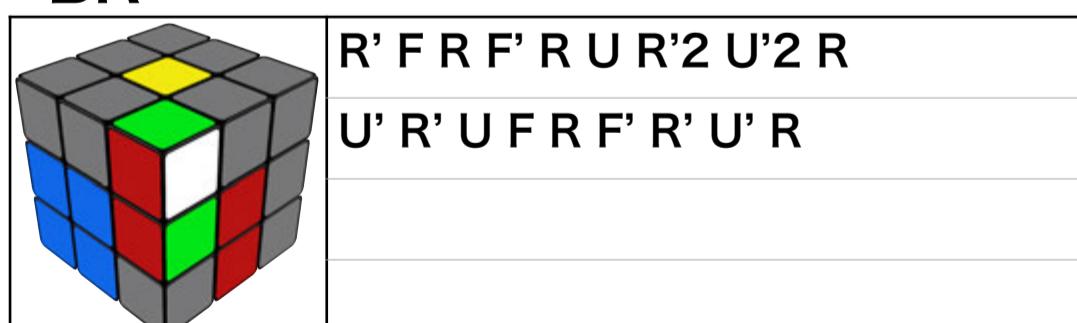
D R' D' R U' R' D R D'

FL



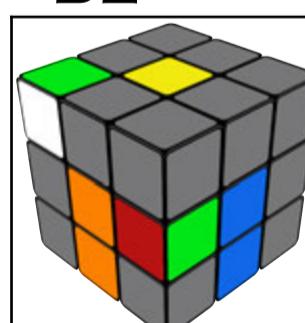
D R' D' R U R' D R D'

BR



R' F R F' R U R'2 U'2 R
U' R' U F R F' R' U' R

BL



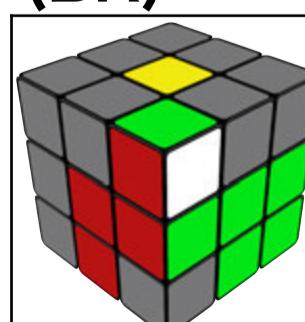
R U R' L U L'

(FL)

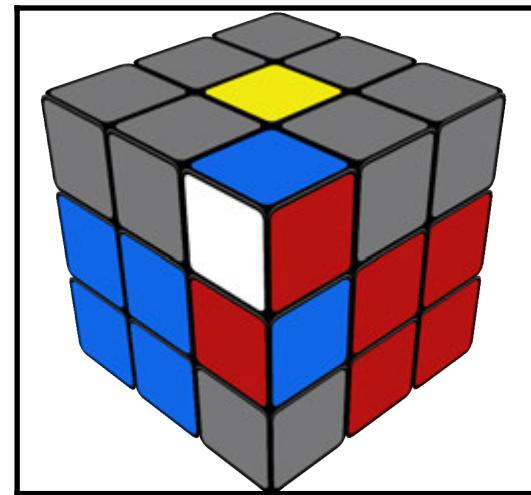


u R' D' R U' R' D R D'

(BR)



u' R' D' R U R' D R D



#4

	M' U R U' r' R U' R'

	R U R' U' F' U F'

	R U' R' U' F' U' F

	R U R' F R' F' R

	M' U R U' r' U' R' F R F'

	FR
	r U2 r' F2

	FR
	R U R'2 U' R2 U R'

	FL
	R U R'2 F R U F'

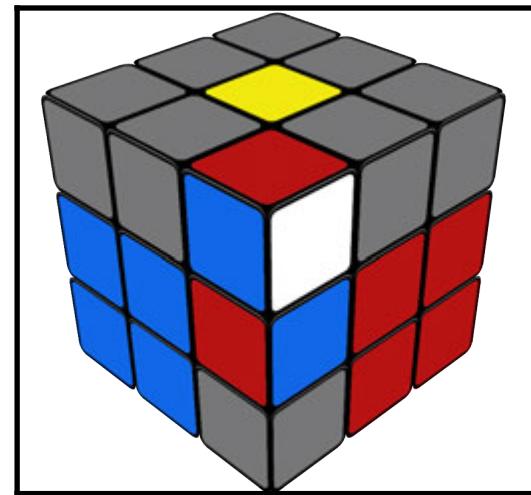
	FL
	B L' U' L B'

	FL
	F U' F' U' L' U' L U F R' F R F' U F'

	BR
	R' U F R U R' U' F' R B U' B' U' R' U' R U2 R'2 D' r U' r' D R U' R

	BR
	F R' U' R F'

	BL
	R B' U' B R'



#4

	F' U' F U' R U R'

	F' U' F U R U' R'

	F' U' F R' F R F' R' F R F' U2 R U R'

	F' U F U R U R'

	F' U' F U' F R' F' R2 U R'

	FR R' U' R2 U R'

	FR L' U' L R U' R'

	FL R' F2 R F2 F' U' F2 U F'

	FL R' F U F' R

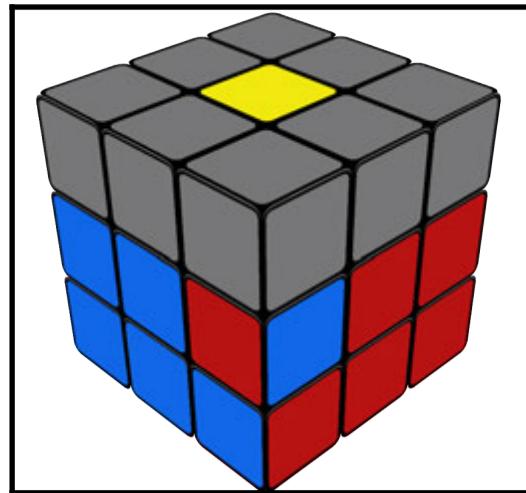
	FL M' U' L' U I' L' U L U' L' U' L F' L F L'

	BR R' U' R2 U R'2 U' R

	BR R' F R' F' R U' R

	BR F R' U R U' R' U' R F'

	BL R' F R F' L U L'



#4

	R' F R F' R U' R' U R U' R' U2 R U' R'

	F R' F' R U' R U'2 d R' U' R

FL

	R U R' U2 R U'2 R'2 F R U F'

FL

	L' U L y' U' R U'2 R' U2 R U' R'

FL

	u' R U R' F R' F' R u

BR

	R' U R F R U R2 U' R F'

BR

	R U R' U2 R U'2 R'2 U' R

BL

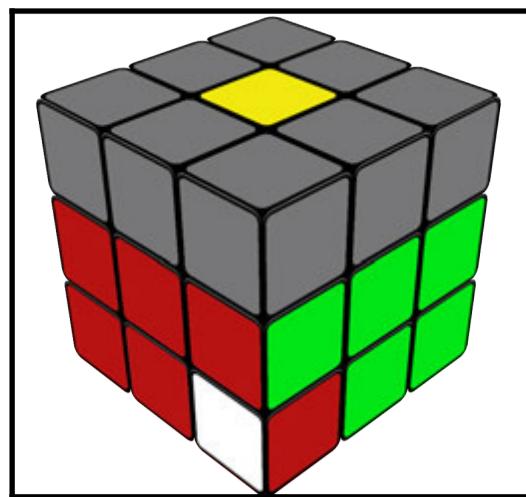
	R' F R F' R U' R' U R' U L U2 L'

(FL)

	D' R' F R F' R U' R' u

(BR)

	D R' F R F' R U' R' u'



#4

	R' U' R' U' R U R' U2 R U' R'

	R' U' R' U' R U R' U R' F R F'

FL

	R' F R F' U2 L' U L U' L U' L'

FL

	L' U L U' L' U2 L U' L' U L

BR

	R' U R U' R' U'2 R U' R' U R

BR

	R' F R F' R' U R U' R' U' R

BL

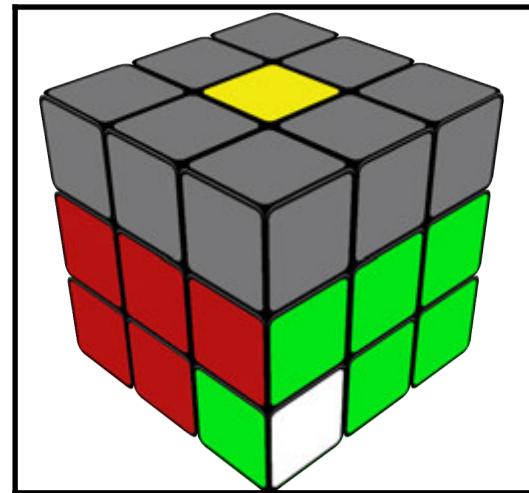
	R' F R F' d R' U R U L' U' L

BL

	R U R' U L U2 L' U' L U L'

(FL)

	u R U' R' U R U' R' D'



#4

	R U' R' U R U'2 R' U R U' R'

	R U' R' U R U'2 R'2 F R F'

FL

	R' F R F' U L' U2 L U L' U' L

FL

	R U R' d' L U' L' U L U L'

FL

	L' U L U L' U' L U L' U2 L

BR

	R' U' R U R' U'2 R U R' U' R

BR

	R' F R F' U' R' U2 R U R' U' R

BL

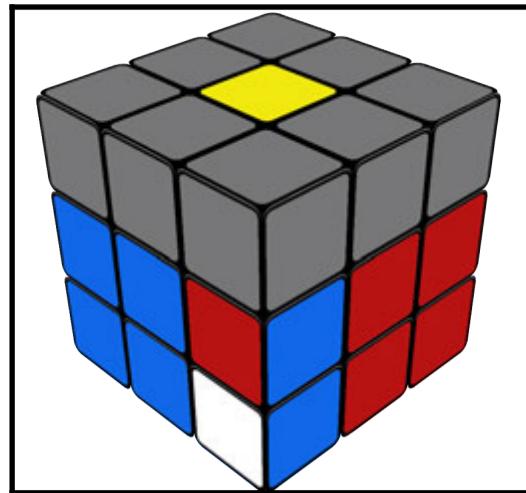
	R U R' L U' L' U L U L'

BL

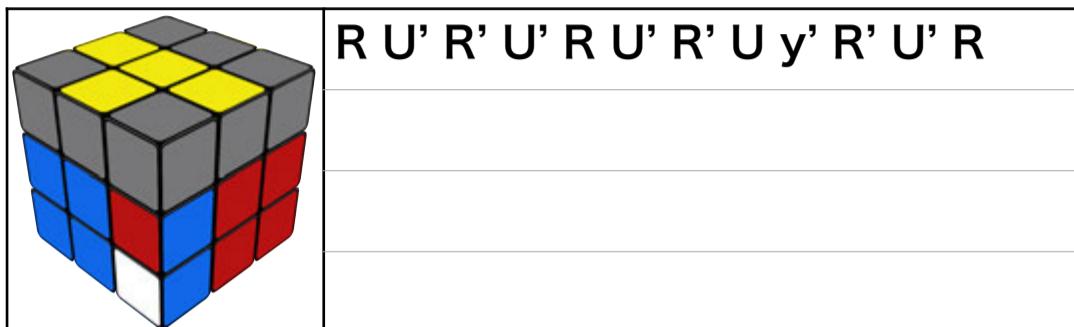
	R U R' L U' L' U L U L'

(FL)

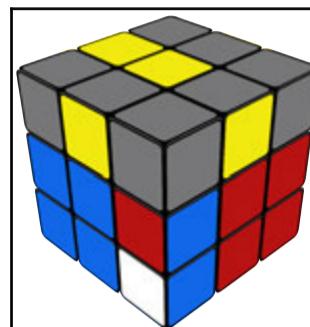
	u R U R' U' R U R' D'



#4



R U' R' U' R U' R' U y' R' U' R



r U' r' U2 r U r' R U R'

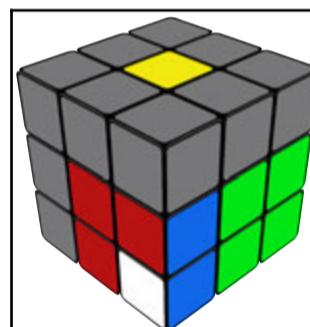


FL



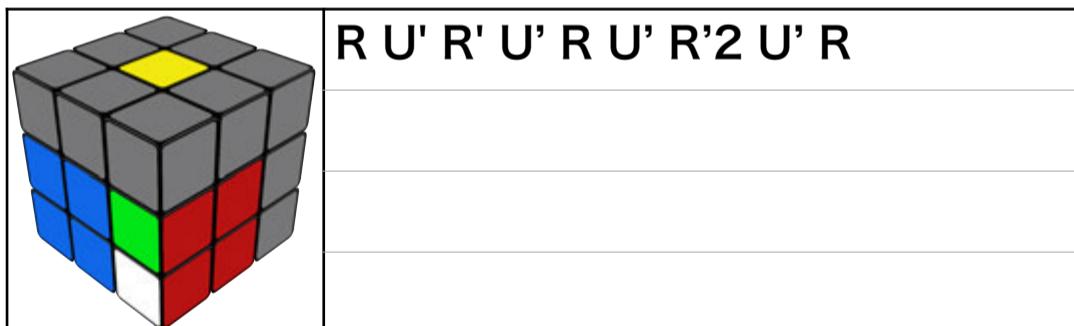
L' U L F R U2 R' F'

FL

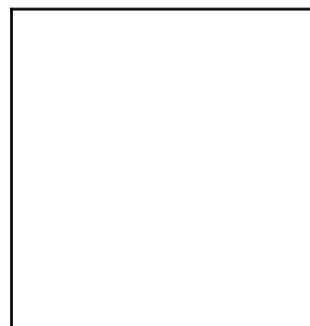


R U' R' U' R U' R'2 F R U F'

BR



R U' R' U' R U' R'2 U' R

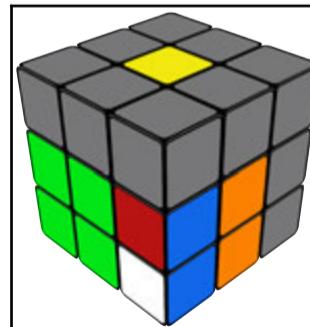


BL

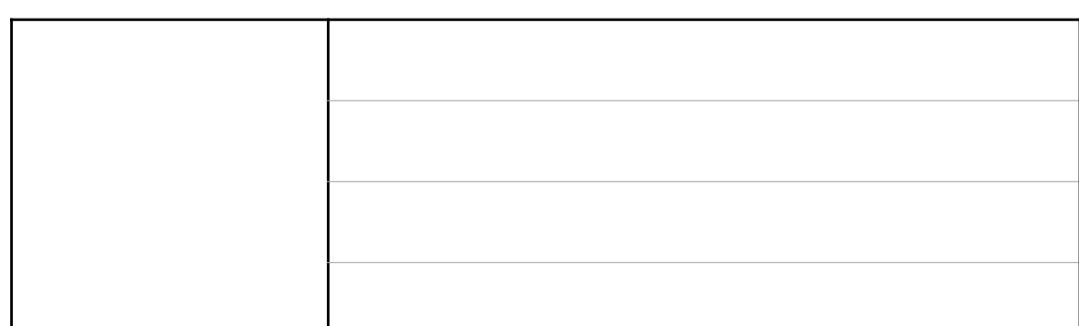
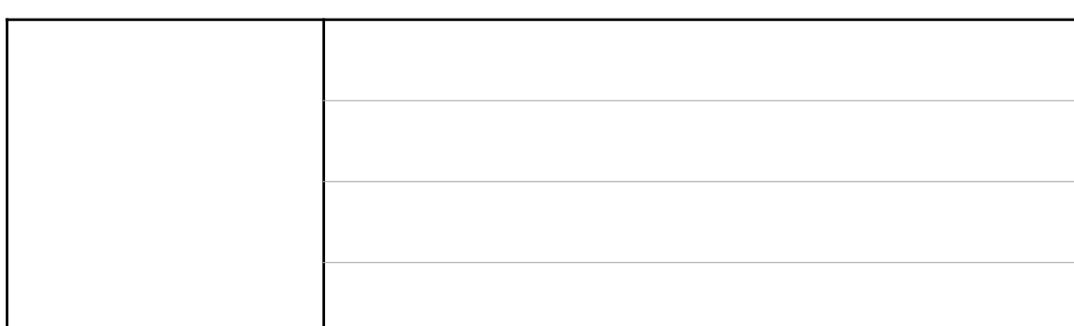


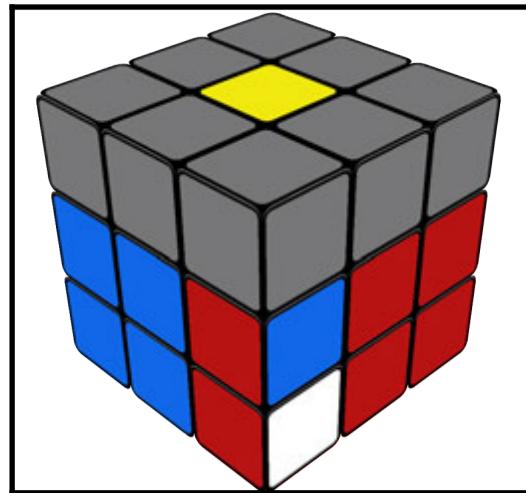
R' F R F' U L' U L U' L U L'

BL



R U' R' U' R U' R' d' R' U' R





#4

	R U R' U' R U' R' U2 y' R' U' R U R U F R U R' U' F' R'

	R U' R' r U' r' U2 r U r'

FL

	F R U'2 R' F' L' U' L

FL

	R U' R' U' L' U' L' U' L' U' L

BR

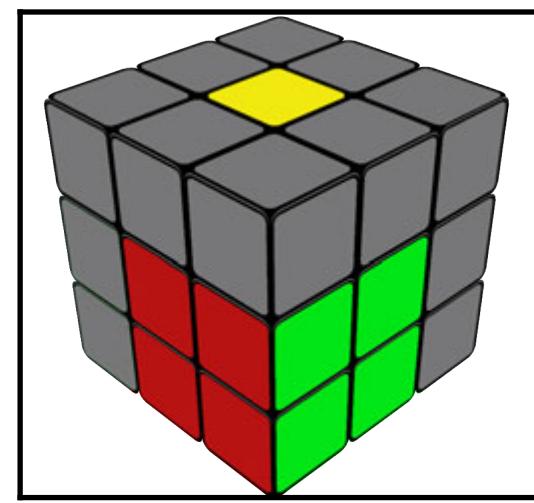
	R U' R' U R' U' R U' R' U R

BL

	R U' R' y' L' U' L U' L' U L

BL

	R U' R' y R' U' R U' R' U R



FR → **FL**

	R' F R F' L' U L

FR → **BR**

	R' F R F' U R' U'2 R

FR → **BL**

	R L U2 L' R'

FL → **FR**

	R' F R2 U' R2' F' R

FL → **BR**

	R' L' U2 L R

FL → **BL**

	y' R' F R F' L' U L

BR → **FR**

	y R' F R F' L' U L

BR → **FL**

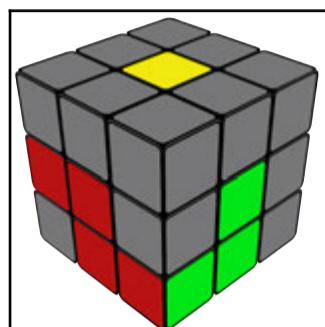
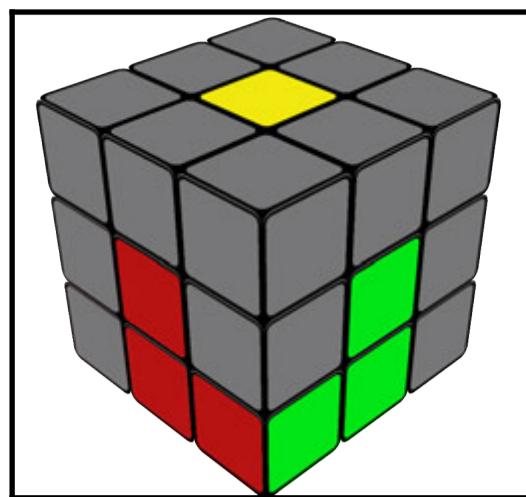
	R' L' U2 L R

BR → **BL**

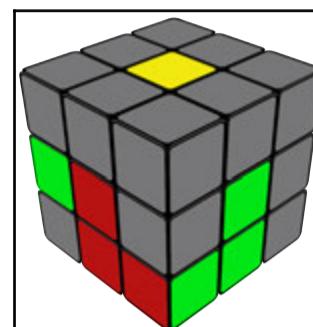
	y R' F R F' U R' U'2 R

FR ↔ **BR**

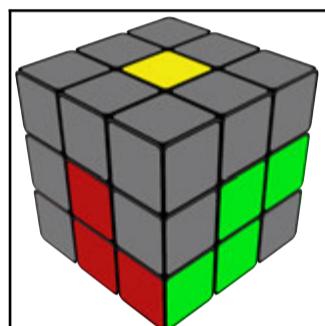
	F' U R' U2 R U' F



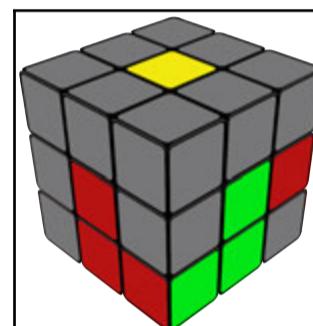
(FL) $y L2 U L'2 U' L2$
(BR) $y' R2 U R'2 U' R2$



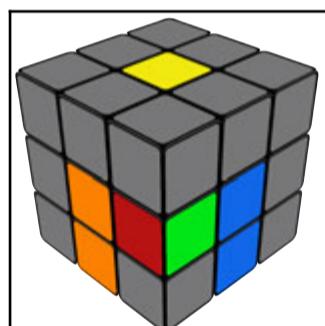
L u L' u' L'
F U r U' r' F'
(BR) $y2 R u R' u' R'$



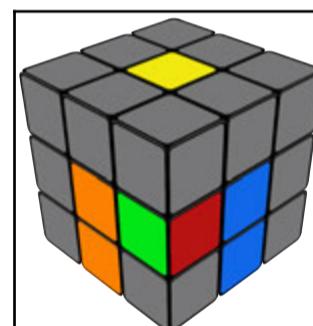
R2 U' R'2 U R2



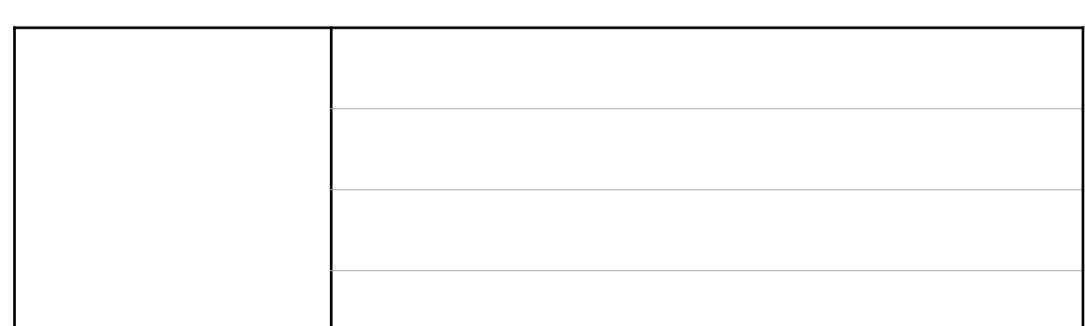
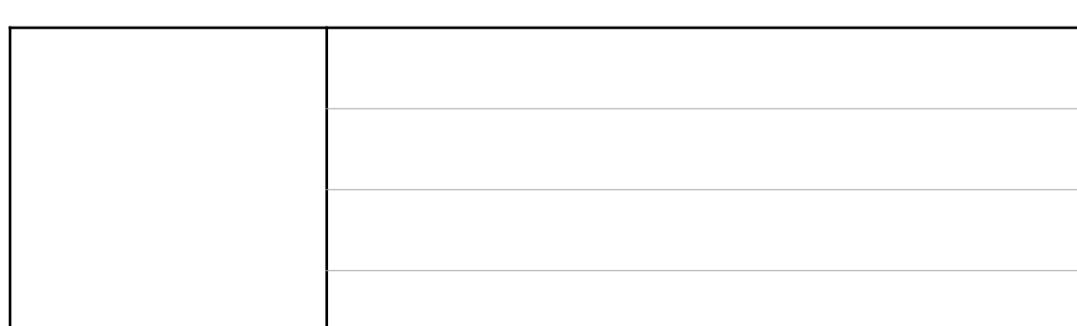
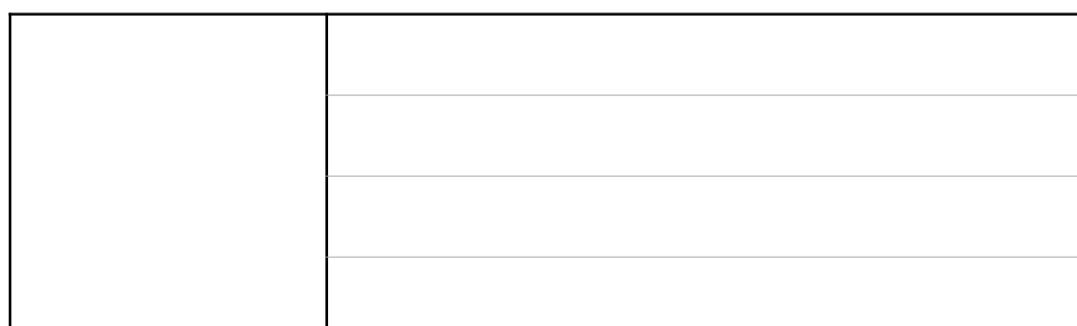
(FL) $y R' u' R u R$

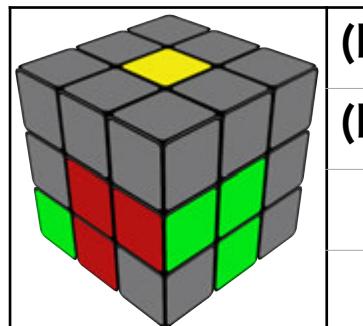
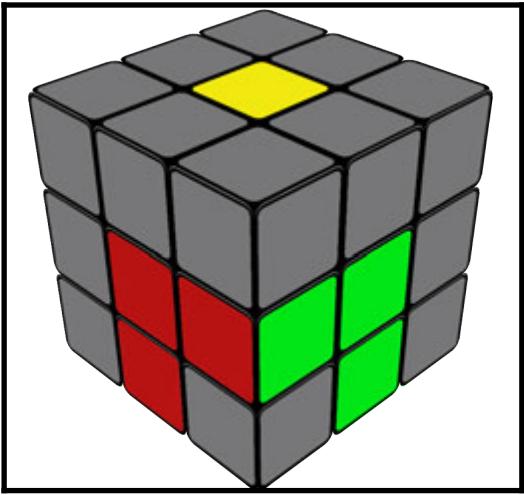


(BL) $R'2 u R2 u' R'2$

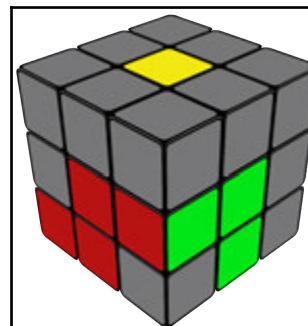


(BR) $y F R' U R2 U' R'2 U' R F'$

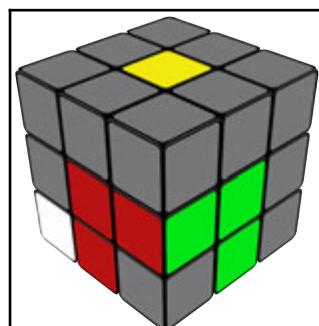




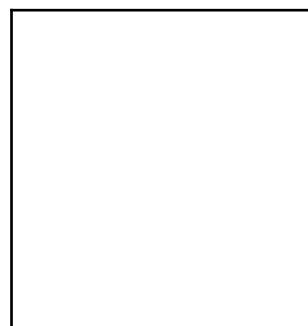
(BR) $y' R2 U R U' R U R$
(BR) $y' R U R' D' R U' R' D$



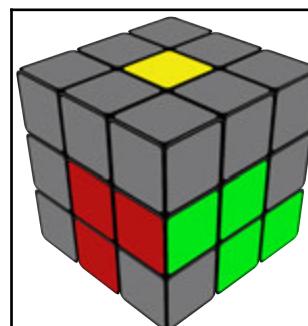
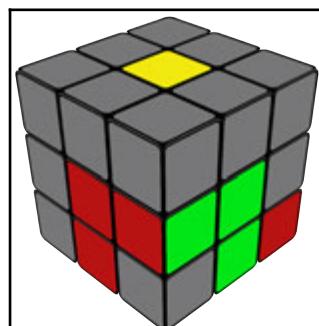
(BR) $y' R U' R' U D' R U' R' D$



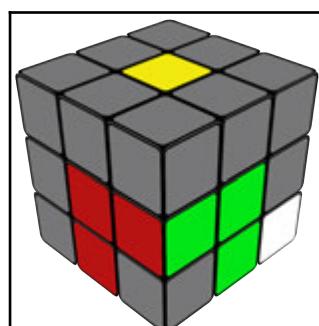
(BR) $y' R' U R2 U2 R'2 U R$
(BR) $y' R U R' U' D' R U R' D$



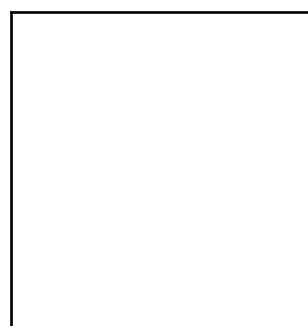
(FL) $y R' F' R2 U' R'2 F R$
 $R2 U' R' U R' U' R'$



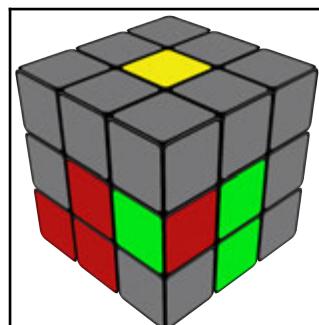
(FL) $y R U R' U' D R U R' D'$



(FL) $y R U' R' U D R U' R' D'$



(R') $F R U' F' R U' R'$



(R') $F R U' F' R U' R'$

