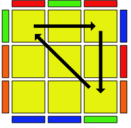
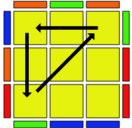
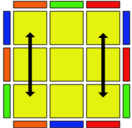
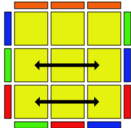
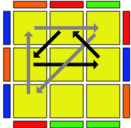
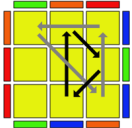
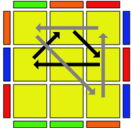
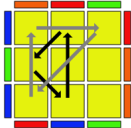
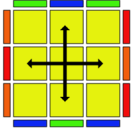
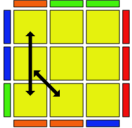
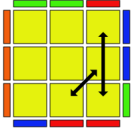
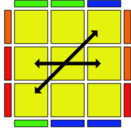
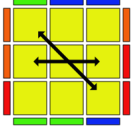
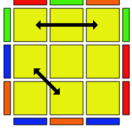
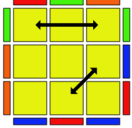
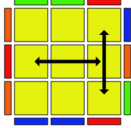
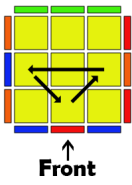


3x3 PLL

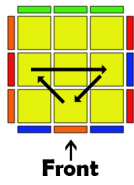
A a  <p>↑ Front</p>	A b  <p>↑ Front</p>	E  <p>↑ Front</p>	F  <p>↑ Front</p>
$I' U R' D^2 R U' R' D^2 R^2$	$I U' R D^2 R' U R D^2 R^2$	$x' (R U' R' D) (R U R' D') (R U R' D) (R U' R' D')$	$R' U^2 R' d' R' F' R^2 U' R' U R' F R U' F$
G a  <p>↑ Front</p>	G b  <p>↑ Front</p>	G c  <p>↑ Front</p>	G d  <p>↑ Front</p>
$[R^2 u] R' U R' U' R u' R^2 y' [R' U R]$	$[L' U' L] y' [R^2 u R' U R U' R u' R^2]$	$[R^2 u'] R U' R U R' u R^2 y [R U' R']$	$[R U R'] y' R^2 u' R U' R' U R' u R^2$
H  <p>↑ Front</p>	J a  <p>↑ Front</p>	J b  <p>↑ Front</p>	N a  <p>↑ Front</p>
$M^2 U M^2 U^2 M^2 U M^2$	$y [R' U L'] U^2 [R U' R' U^2] [L R U']$	$[R U R' F'] [R U R' U' R' F] [R^2 U' R' U']$	$[L U' R U^2 L' U R'] [L U' R U^2 L' U R'] U$
N b  <p>↑ Front</p>	R a  <p>↑ Front</p>	R b  <p>↑ Front</p>	T  <p>↑ Front</p>
$[R' U L' U^2 R U' L] [R' U L' U^2 R U' L] U$	$[L U^2' L' U^2'] L F' L' U' L U L F L^2' U$	$[R' U^2 R U^2] R' F R U R' U' R' F' R^2 U'$	$[R U R' U'] R' F R^2 U' R' U' [R U R' F']$

U
a



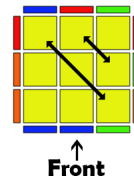
$[R\ U' R] U\ R\ U\ R\ U' R'$
 $U' R^2$

U
b



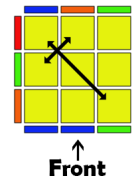
$R^2 U\ R\ U\ R' U' R' U'$
 $R' U\ R'$

v



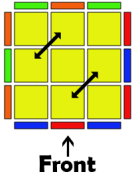
$[R' U\ R' d'] R' F' R^2 U'$
 $R' U\ R' F R F$

Y



$[F R U' R' U' R U R' F']$
 $[R U R' U'] [R' F R F']$

Z



$M^2 U\ M^2 U\ M' U^2 M^2$
 $U^2 M' U^2$