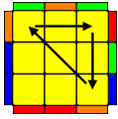
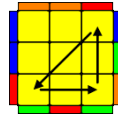


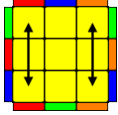
Corners Only



Aa, probability= $\frac{1}{18}$
 $I' (U R') D2 (R U' R') D2 R2$
 $(x') (R' D R') U2 (R D' R') U2 R2$

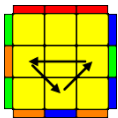


Ab, probability= $\frac{1}{18}$
 $I (U' R) D2 (R' U R) D2 R2$
 $(y) (x') (L D' L) U2 (L' D L) U2 L2$

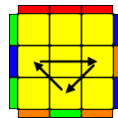


E, probability= $\frac{1}{36}$
 $(x') [(R U' R') D (R U R') D'] [(R U R') D (R U' R') D']$

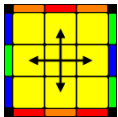
Edges Only



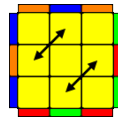
Ua, probability= $\frac{1}{18}$
 $M2 U' (M U2 M') U' M2$
 $F2 U (M' U2 M) U F2$



Ub, probability= $\frac{1}{18}$
 $M2 U (M U2 M') U M2$
 $F2 U' (M' U2 M) U' F2$

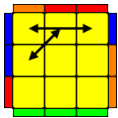


H, probability= $\frac{1}{72}$
 $(M2 U M2) U2 (M2 U M2)$

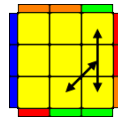


Z, probability= $\frac{1}{36}$
 $M2 U M2 U (M' U2) (M2 U2) M' U2$
 $(y') M' U (M2 U M2 U) M' U2 M2 U'$

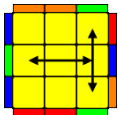
Adjacent Corner Swap



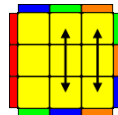
Ja, probability= $\frac{1}{18}$
 $(R' U L') U2 (R U' R') U2 (L R) U'$
 $(y) (x) R2 F R F' R U2 r' U r U2$
 $(R D') VPerm (D R')$



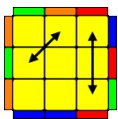
Jb, probability= $\frac{1}{18}$
 $(R U R' F') [R U R' U' R' F R2 U' R' U']$



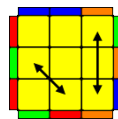
T, probability= $\frac{1}{18}$
 $R U R' U' R' F R2 U' R' U' R U R' F'$
 $R2 U R2 U' R2 U' D R2 U' R2 U R2 D'$



F, probability= $\frac{1}{18}$
 $(R' U' F') [R U R' U' R' F R2 U' R' U' R U R' U] R$

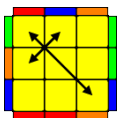


Ra, probability= $\frac{1}{18}$
 $(R U' R' U') (R U R D) (R' U' R D') R' U2 R'$

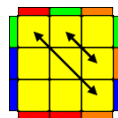


Rb, probability= $\frac{1}{18}$
 $R2 F R (U R U' R') F' R U2 R' U2 R U$
 $(y') R' U2 R U2 R' F (R U R' U') R' F' R2 U'$

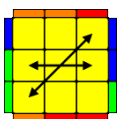
Diagonal Corner Swap



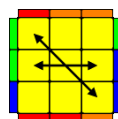
Y, probability= $\frac{1}{18}$
 $F [(R U' R' U') (R U R' F') (R U R' U') R' F R] F'$



V, probability= $\frac{1}{18}$
 $(R' U R' U') (y) R' F' R2 U' R' U R' F R F$

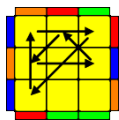


Na, probability= $\frac{1}{72}$
 $[r' D r U2] \times 5$
 $(L D L' F') TPerm \text{ without } F (L D' L')$



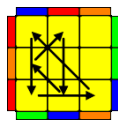
Nb, probability= $\frac{1}{72}$
 $R' (U R' U' R') (F' U' F) (R U R' F) R' F' R U' R$

G Permutations



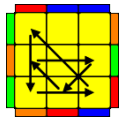
Ga, probability= $\frac{1}{18}$

R2 (U R' U R') **U'** R U' R2 (U' D) **R'** U R D'
(**y'**) (R U R' U' R') U F (R U R U' R') F' U R'
U2 R



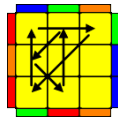
Gb, probability= $\frac{1}{18}$

R' U R (U D') **R2** U (R' U R U') R U' R2 D
R' U' R (**y**) R2 u (R' U R U' R) u' R2



Gc, probability= $\frac{1}{18}$

R2 U' R U' (**R U R' U**) R2 (U D') **R** U' R' D
(**y**) F2' D' L U' L U L' D F2 R U' R'



Gd, probability= $\frac{1}{18}$

R U R' (U' D) **R2** U' R U' (R' U R' U) R2 D'
L U2 L' U F' (L' U' L U L) F U (L' U' L' U L)