

Corners Only

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|--|--|--|---|
| | 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= $\frac{1}{18}$ $I (U' R) D2 (R' U R) D2 R2$ $(y2) (x') (L D' L) U2 (L' D L) U2 L2$ |
| | E , probability= $\frac{1}{36}$ $(x') [(R U' R') D (R U R') D'] [(R U R') D (R U' R') D']$ | | |

Edges Only

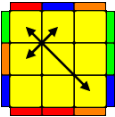
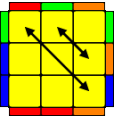
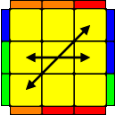
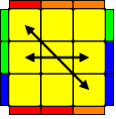
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|--|---|--|--|
| | Ua , probability= $\frac{1}{18}$ $M2 U' (M U2 M') U' M2$ $F2 U (M' U2 M) U F2$ | | Ub , probability= $\frac{1}{18}$ $M2 U (M U2 M') U M2$ $F2 U' (M' U2 M) U' F2$ |
| | H , probability= $\frac{1}{72}$ $(M2 U M2) U2 (M2 U M2)$ | | Z , probability= $\frac{1}{36}$ $M2 U M2 U (M' U2) (M2 U2) M' U2$ $(y') M' U (M2 U M2 U) M' U2 M2 U'$ |

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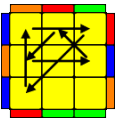
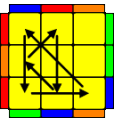
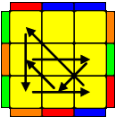
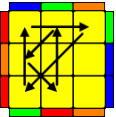
Adjacent Corner Swap

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| | 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

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|  | 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]x5 (L D L' F') TPerm 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

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|  | 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) |