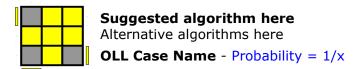


OLL Algorithms (Orientation of Last Layer)

Developed by Feliks Zemdegs and Andy Klise

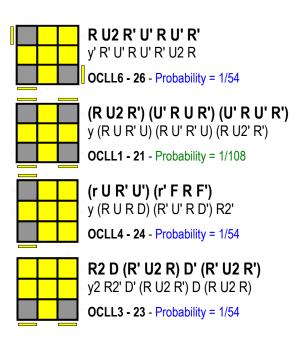
Algorithm Presentation Format



Round brackets are used to segment algorithms to assist memorisation and group move triggers.

It is recommended to learn the algorithms in the order presented.

All Edges Oriented Correctly



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

OCLL7 - 27 - Probability = 1/54

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

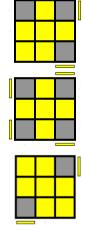
OCLL2 - 22 - Probability = 1/54

y F' (r U R' U') r' F R

x (R' U R) D' (R' U' R) D x'

OCLL5 - 25 - Probability = 1/54

R U R' U R U2' R'



T-Shapes



F (R U R' U') F' T2 - 45 - Probability = 1/54



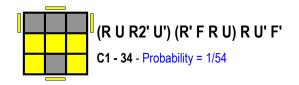
Squares



(r U2 R' U' R U' r') S2 - 6 - Probability = 1/54



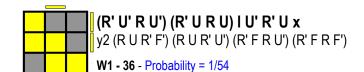
C-Shapes



R' U' (R' F R F') U R C2 - 46 - Probability = 1/54



W-Shapes

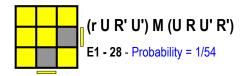


(R U R' U) (R U' R' U') (R' F R F')

W2 - 38 - Probability = 1/54



Corners Correct, Edges Flipped

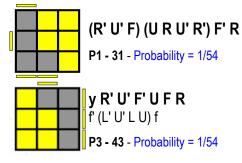


(R U R' U') M' (U R U' r')

E2 - 57 - Probability = 1/108



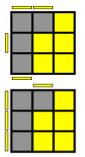
P-Shapes



R U B' (U' R' U) (R B R') S (R U R' U') (R' F R f)

P2 - 32 - Probability = 1/54

f (R U R' U') f' y2 F (U R U' R') F' **P4 - 44** - Probability = 1/54



I-Shapes





r' U' r (U' R' U R) (U' R' U R) r' U r

I4 - 56 - Probability = 1/108

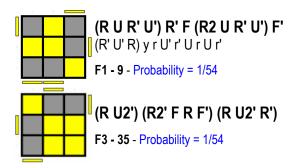


y (R' F R U) (R U' R2' F') R2 U' R' (U R U R')

I3 - 55 - Probability = 1/108



Fish Shapes



(R U R' U) (R' F R F') (R U2' R') (R U R') y (R' F R U') (R' F' R)

F2 - 10 - Probability = 1/54

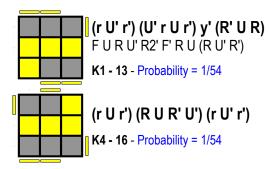
F (R U' R' U') (R U R' F')

F4 - 37 - Probability = 1/54





Knight Move Shapes

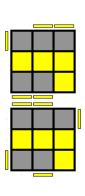


(R' F R) (U R' F' R) (F U' F')

K2 - 14 - Probability = 1/54

 $(r'\ U'\ r)\ (R'\ U'\ R\ U)\ (r'\ U\ r)$

K3 - 15 - Probability = 1/54



Awkward Shapes

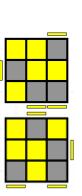


y' F U (R U2 R' U') (R U2 R' U') F' y' (F R' F) (R2 U' R' U') (R U R') F2

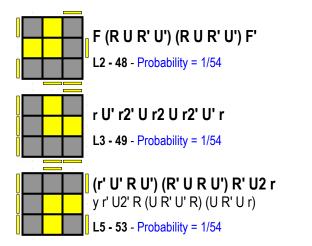
A2 - 30 - Probability = 1/54

(R' U' R U' R' U2 R) F (R U R' U') F' y (R' F R F') (R' F R F') (R U R' U') (R U R')

A4 - 42 - Probability = 1/54



L-Shapes



F' (L' U' L U) (L' U' L U) F R' U' (R' F R F') (R' F R F') U R

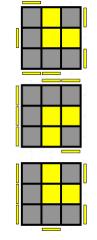
L1 - 47 - Probability = 1/54

r' U r2 U' r2' U' r2 U r' y' (R U2 R' U' R U' R') F (R U R' U') F'

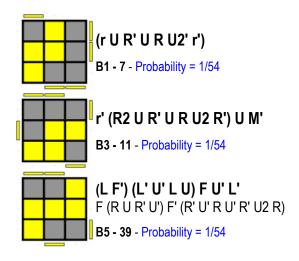
L4 - 50 - Probability = 1/54

(r U R' U) (R U' R' U) R U2' r' y' (r U2 R' U') (R U R' U') R U' r'

L6 - 54 - Probability = 1/54



Lightning Bolts



(**r' U' R U' R' U2 r)** y2 l' U' L U' L' U2 l

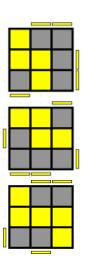
B2 - 8 - Probability = 1/54

M' (R' U' R U' R' U2 R) U' M y F (R U R' U') F' U F (R U R' U') F'

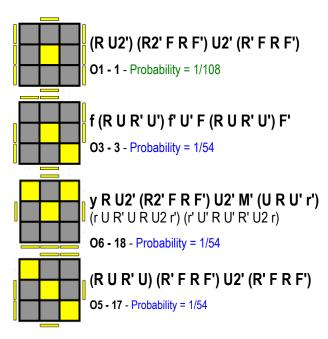
B4 - 12 - Probability = 1/54

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

B6 - 40 - Probability = 1/54



No Edges Flipped Correctly



F (R U R' U') F' f (R U R' U') f' y (r U r') U2 R U2' R' U2 (r U' r')

O2 - 2 - Probability = 1/54

f(RUR'U')f'UF(RUR'U')F'

O4 - 4 - Probability = 1/54

M U (R U R' U') M' (R' F R F')

07 - 19 - Probability = 1/54

M U (R U R' U') M2' (U R U' r') (r U R' U') M2' (U R U' R') U' M'

O8 - 20 - Probability = 1/216

