**2x2 1-Look**

Assume first face is yellow. Most L/R mirror cases are not included. Left image shows the case, right shows prediction by the suggested algorithm. First predict OLL: track any 3 white stickers; Then predict EG: track any 3 non-white stickers on any 3 white pieces. For the cases where all the yellow pieces are in first layer, one can do U move first to make better EG.

|  |  |  |
| --- | --- | --- |
| **\*** | | Alg of left image **R U R' U R2** moves purple, green, orange pieces in right image by **y2 z, y2 z +**, **y2 z F**. Notation: fixed piece, piece by pure rotating, twist piece, piece by 1 or 2 moves, piece by 2 moves. case with 3 relatively fixed piece [8], same case\*. + = CW, - = CCW. |
| **R U R' U R2** | **y2 z (+, F)** |
| Alternative algorithms | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bar [36]** | | | | | | | | | | | |
| **LS (Last Slot) [5]** | | | | | | | | | | | |
|  | | | | **\*** | | | | **\*** | | | |
| **F' R' F R** | | **U** | | **R U R' F'** | | **U** | | **R' U R U R'** | | **y F R** | |
| = y L' F' L F = y2 z F' R' U R | | | | = y' F R F' R' = y2 z U R U' F' | | | |  | | | |
|  | | | | **\*** | | | | **\*** | | | |
| **F R U' R'** | | **U'** | | **R' F' R F** | | **U'** | | **R U' R' U' R** | | **y' R' F'** | |
| = y' R F R' F' = y2 z' F L U' L' | | | | = y F' L' F L = y2 z' U' L' U F | | | |  | | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R U2' R'** | **z2 x** | | **R' U' R** | | **U', U' R** | **R U' R'** | **U', R U'** | | **R' F R F'** | | **F R, R' U** |
|  | | | = y' F' L' F = y2 R' F' R | | | = y' F R' F' | | | = y F' R U R' | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R' U2 R** | **z2 x'** | | **R U R'** | | **U, U R'** | **R' U R** | **U, R' U** | | **F R' F' R** | | **R' F', F U'** |
|  | | | = y' F R F' | | | = y' F' L F = y2 R' F R | | | = y R U' R' F | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R2 U' R2'** | **U'** | | **R2 U R2'** | | **U** | **R2 U R2' U' R2** | **U, U'** | | **R2 U R2' U' F2 R2** | | **y' U'** |
|  | | | | | | | | | | | |
| **DD [4]** | | | | | | | | | | | |
|  | | | **\*** | | |  | | | **\*** | | |
| **R' U2 R U' R'** | **z' x' D' R'** | | **R' U' R U2' R'** | | **z y D' B'** | **R U2' R' U R** | **z' x D R** | | **R U R' U2' R** | | **z y' D F** |
|  | | | **\*** | | |  | | | **\*** | | |
| **R' U R2 U' R** | **U R'** | | **R U' R2' U R'** | | **R' U** | **R U2' R2' U R2** | **y2 -** | | **F R2 U' R2'** | | **F, U'** |
|  | | | z ->other case | | |  | | |  | | |
|  | | | | | | | | | | | |
| **UD - 1 move D [6]** | | | | | | | | | | | |
|  | | |  | | |  | | |  | | |
|  |  | | **R'** | | **R'** | **R** | **R** | |  | |  |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R2' F' R F** | **-** | | **R' F R U' R'** | | **x' L2** | **R U R' U' R2** | **R2, U'** | | **R' U' R U R'** | | **-, U** |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **L2 F L' F'** | **+** | | **L F' L' U L** | | **x' R2** | **R' U' R U R2'** | **R2, U** | | **R U R' U' R** | | **+, U'** |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R2 U' R' U R' F'** |  | | **R U' R2'** | | **x' -** | **R' U R U' R'** | **-, U** | | **R2' F R F'** | | **-, F R** |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R U R' U' F** | **z** | | **R' U R2** | | **x +** | **R U' R' U R** | **+, U'** | | **L2 F' L' F** | | **+, F' L'** |
|  | | | | | | | | | | | |
| **UD - 3 move D [6]** | | | | | | | | | | | |
|  | | | **\*** | | |  | | | **\*** | | |
| **F R U' R U R2'** |  | | **R2 U R'** | | **y (F2, R')** | **B' R' U R' U' R2** |  | | **R2' U' R** | | **y' (B2, R)** |
|  | | | U z y ->other case | | |  | | | U' z y' ->other case | | |
|  | | |  | | |  | | |  | | |
| **R' D R** |  | | **L D' L'** | |  | **R U' R** | **y' (B, R)** | | **R' U R'** | | **y (F', R')** |
| = y F' R F | | | = y' F U' R' | | |  | | |  | | |
|  | | | | | | | | | | | |
| **UU - 2 Up [2]** | | | | | | | | | | | |
|  | | |  | | | **\*** | | | **\*** | | |
| **R2** | **R2** | | **R2 U' R2' U' R2** | | **y' B2** | **R' U' R U' R2'** | **y2 z (-, B2)** | | **R U R' U R2** | | **y2 z (+, F)** |
|  | | | U' R2 U R2' U R2 | | |  | | |  | | |
|  | | | | | | | | | | | |
| **UU - 1 Up [6]** | | | | | | | | | | | |
|  | | | | **\*** | | | | **\*** | | | |
| **R' U2 R'** | | **z2 x' R2** | | **R' U' R2** | | **x L U'** | | **R' U R U' R** | | **R** | |
|  | | | | **\*** | | | | **\*** | | | |
| **R U2 R** | | **z2 x R2** | | **R U R2'** | | **x' L' U** | | **R U' R' U R'** | | **R'** | |
|  | | | | **\*** | | | | **\*** | | | |
| **R2' U R U' R** | | **R'** | | **R' U' R'** | | **y2 z (B', L')** | | **L' F U' F'** | | **R2, U'** | |
|  | | | |  | | | | = y' F' R U' R' = y2 R' F R' F' | | | |
|  | | | | **\*** | | | | **\*** | | | |
| **R2 U' R' U R'** | | **R** | | **R U R** | | **y2 z (F, L)** | | **L F' L F** | | **L2, U** | |
|  | | | |  | | | | = y' F R' F R = y2 R F' U F | | | |
|  | | | **\*** | | |  | | | **\*** | | |
| **R2' F R U' R'** | **x2 L** | | **R2 U R' U' R** | | **R', R U'** | **L2 F' L' U L** | **x2 R'** | | **R2' U' R U R'** | | **R, R' U** |
|  | | | | | | | | | | | |
| **UU - 0 Up [7]** | | | | | | | | | | | |
|  | | | **\*** | | |  | | |  | | |
| **R2 U2' R'** | **z2 R** | | **R2' U2' R** | | **z2 R'** | **R U' R U R'** | **R U'** | | **R' U R' U' R** | | **R' U** |
|  | | | U' R' U' R2 U R'  U' R U R2' U' R | | |  | | |  | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R U R U2' R'** | **z' B** | | **R' U' R' U2' R** | | **z' F'** | **R2 U' R'** | **y' (+, B2)** | | **R2' U R** | | **y' (-, F2)** |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R U2' R2' U' R2** | **y2 L U'** | | **F' R2 U' R2'** | | **F', U'** | **F L2' U L2** | **F, U** | | **R U' R' U R' U' R** | | **y' (B, B')** |
| = R' U2' R2 U R2' | | |  | | |  | | | = R' U R U' R U R' | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R U' R U R2'** | **F'** | | **L F' L' U L' U' L2** | | **x' R** | **R' U R' U2' R** | **z y' D' F** | | **R' U' F R F'** | | **F', B'** |
| R' U2 R' U' R | | |  | | | R' U2 R' U R | | |  | | |
|  | | | **\*** | | | **\*** | | | **\*** | | |
| **R' U R' U' R2** | **B** | | **R' F R U' R U R2'** | | **x' L'** | **R U' R U2' R'** | **z y D B'** | | **R U F' U' F** | | **B, F** |
| R U2 R U R' | | |  | | | R U2 R U' R' | | |  | | |
|  | | | | | | | | | | | |
| **(T)CLL [4]** | | | | | | | | | | | |
| **F** | | | **F** | | | **L** | | | **S** | | |
| **R2 U R' F' R'** | **L** | | **L2' U' L F L** | | **R'** | **R2 U R2' F'** | **F', U** | | **F U2 R** | | **y2 (B, R)** |
|  | | | | | | | | | | | |
| **Easy Checker [12]** | | | | | | | | | | | |
| **UD [6]** | | | | | | | | | | | |
|  | | |  | | |  | | |  | | |
| **R D R'** |  | | **R F R'** | |  | **F' R' F** |  | | **x R U R' F' R'** | |  |
|  |  | | U' R F U R' | | |  |  | |  | |  |
|  | | |  | | |  | | |  | | |
|  |  | | **x U' R U' R' U x'** | | **F'** | **x R U' R' U R' x'** | **R'** | |  | |  |
|  | | | | | | | | | | | |
| **UU [6]** | | | | | | | | | | | |
|  | | |  | | |  | | |  | | |
| **x U L U' L x'** | **L2** | | **x U' R' U R' x'** | | **R2** | **x2 R U' R' U L' x** | **D R'** | | **x2 L' U L U' R x** | | **D' L** |
|  | | |  | | |  | | |  | | |
|  |  | | **R2' F R2** | | **F** | **L2 F' L2** | **F'** | |  | |  |
|  | | | | | | | | | | | |
| **Others [7]** | | | | | | | | | | | |
|  | | |  | | |  | | |  | | |
| **F R2** | | | **R' F' R'**  F' U' R' | | | **F' U2 R** | | | **R2 F' R'** | | |
|  | | | |  | | | |  | | | |
| **U' F' R2** | | | | **U F' R2** | | | | **R F U2 R** | | | |