

## Macky Example Solve 1, No Parity

Scramble - B<sup>2</sup> D<sup>2</sup> F D' U<sup>2</sup> R' B<sup>2</sup> U L<sup>2</sup> R' D<sup>2</sup> L' U<sup>2</sup> R' U B R<sup>2</sup> D L F R<sup>2</sup> U F D<sup>2</sup> R<sup>2</sup>  
 Corners only scramble - R<sup>2</sup> B<sup>2</sup> D<sup>2</sup> L<sup>2</sup> B<sup>2</sup> D<sup>2</sup> L' U<sup>2</sup> L D<sup>2</sup> U<sup>2</sup> F<sup>2</sup> R' D R' U F<sup>2</sup> R' U R' D'  
 Edges only scramble - R<sup>2</sup> B<sup>2</sup> F<sup>2</sup> D' B<sup>2</sup> L<sup>2</sup> U<sup>2</sup> R<sup>2</sup> F<sup>2</sup> D<sup>2</sup> R' B' D' L' D' F' R D L'

### Memorization

#### Corners

CO - (1U2U)(3U4U)(5U8U)  
 CP - (13)(268)(47) - put the swap 2's together (ie, put (13)(47) together)

#### Edges

EP (jf rc ie pn y) goes back to m/v so start new cycle immediately  
 (s ub) went back to beginning of cycle, and all edges accounted for, so stop  
 EO - none

### After Donning the Blindfold

#### 1. Corner Orientation

(1U2U) z'-L'-U'R'U(RU'R'U)-L-(U'RUR')U'RU-z  
 (3U4U) y<sup>2</sup> z'-U'R'U(RU'R'U)-L-(U'RUR')U'RU-L-z y<sup>2</sup>  
 (5U8U) x<sup>2</sup> y' z'-L'-U'R'U(RU'R'U)-L-(U'RUR')U'RU-z y x<sup>2</sup>

After this step, you should get this:

F<sup>2</sup> D' B<sup>2</sup> F<sup>2</sup> U' B<sup>2</sup> U B<sup>2</sup> R<sup>2</sup> F<sup>2</sup> U<sup>2</sup> R B' D' L' D' L<sup>2</sup> F' R D L'

#### 2. Corner Permutation

(13)(47) U x'(RU'R'U)\*3 x U'  
 (268) B<sup>2</sup> D' L<sup>2</sup> x R' U R' D<sup>2</sup> R U' R' D<sup>2</sup> R<sup>2</sup> x' L<sup>2</sup> D B<sup>2</sup>

After this step, you should get this:

R<sup>2</sup> B<sup>2</sup> F<sup>2</sup> D' B<sup>2</sup> L<sup>2</sup> U<sup>2</sup> R<sup>2</sup> F<sup>2</sup> D<sup>2</sup> R' B' D' L' D' F' R D L'

#### 3. Edge Permutation

j	U' L U M <sup>2</sup> U' L' U	
f	U R U' M <sup>2</sup> U R' U'	
r	U <sup>2</sup> M' U <sup>2</sup> M'	use this alg because it is 1 <sup>st</sup> in pair
c	F <sup>2</sup> M U M U <sup>2</sup> M' U M' U M' U <sup>2</sup> F <sup>2</sup> M <sup>2</sup>	use this alg because it is 2 <sup>nd</sup> in pair
i	U R' U' M <sup>2</sup> U R U'	
e	U' L' U M <sup>2</sup> U' L U	
p	x' U L U' M <sup>2</sup> U L' U' x	
n	x' U' R' U M <sup>2</sup> U' R U x	
y	M U <sup>2</sup> M U <sup>2</sup>	use this alg because it is 1 <sup>st</sup> in pair

s	R' U R U' M <sup>2</sup> U R' U' R
u	L U' L' U M <sup>2</sup> U' L U L'
b	x' U' R U M <sup>2</sup> U' R' U x

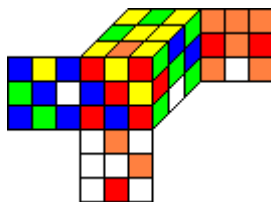
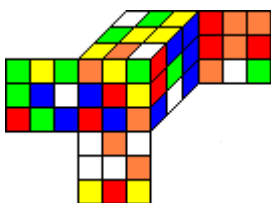
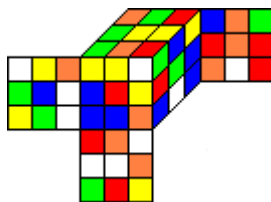
After this step, you solved it

#### 4. Edge Orientation

None

#### 5. Parity

None



## Macky's Example Solve 2 - M2/3OP, With Parity

Scramble - D F' D R<sup>2</sup> B<sup>2</sup> U F L' F' L<sup>2</sup> U<sup>2</sup> L<sup>2</sup> B R<sup>2</sup> B' R U' D B R' F' D<sup>2</sup> B' L' R<sup>2</sup>

### Memorization

#### Corners

CO - (2U6U)(3U7U)  
 CP - (164)(357 8)

#### Edges

EP (fs h)(w ke pr do n) odd # of edges thus you have parity  
 EO t Only one edge needs flipped, thus you must flip m too

### After Donning the Blindfold

#### 1. Corner Orientation

(2U6U) D'L' z'-L'-U'R'U(RU'R'U)-L-(U'RUR')U'RU-z LD  
 (3U7U) D'F'U z'-L'-U'R'U(RU'R'U)-L-(U'RUR')U'RU-z U'FD

After this step, you should get this:

L<sup>2</sup> F<sup>2</sup> L<sup>2</sup> D' L<sup>2</sup> B<sup>2</sup> D R<sup>2</sup> F<sup>2</sup> L<sup>2</sup> B<sup>2</sup> U B' R F' L D B<sup>2</sup> R<sup>2</sup> F L D'

#### 2. Corner Permutation

(164) R<sup>2</sup> y x R<sup>2</sup> D<sup>2</sup> R U R' D<sup>2</sup> R U' R x' y' R<sup>2</sup>  
 (357) D<sup>2</sup> (R<sup>2</sup> U' R<sup>2</sup> U R<sup>2</sup>-D<sup>2</sup>)\*2 D<sup>2</sup>  
 (38) Parity - save for later

After this step, you should get this: R<sup>2</sup> F<sup>2</sup> L<sup>2</sup> F<sup>2</sup> U L<sup>2</sup> D' R<sup>2</sup> D B R F' L D B<sup>2</sup> R<sup>2</sup> F L D'

#### 3. Edge Permutation

f	U R U' M <sup>2</sup> U R' U'	
s	R' U R U' M <sup>2</sup> U R' U' R	
h	I U' R' U M <sup>2</sup> U' R U I'	
w	U R <sup>2</sup> U' M <sup>2</sup> U R <sup>2</sup> U'	
k	r' U L U' M <sup>2</sup> U L' U' r	
e	U' L' U M <sup>2</sup> U' L U	
p	x' U L U' M <sup>2</sup> U L' U' x	
r	M U <sup>2</sup> M U <sup>2</sup>	use this alg because it is 2 <sup>nd</sup> in pair
d	x' U L' U' M <sup>2</sup> U L U' x	
o	F E R U R' E' R U' R' F' M <sup>2</sup>	use this alg because it is 2 <sup>nd</sup> in pair
n	x' U' R' U M <sup>2</sup> U' R U x	Odd # of M <sup>2</sup> slices, so add M <sup>2</sup> to fix it

After this step, you should get this: L<sup>2</sup> D<sup>2</sup> R' U<sup>2</sup> L' B<sup>2</sup> L D<sup>2</sup> U<sup>2</sup> L' F<sup>2</sup> L' F U L' U<sup>2</sup> L U' F'

#### 4. Edge Orientation

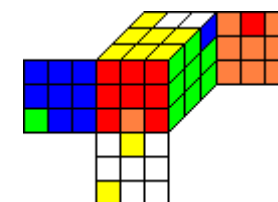
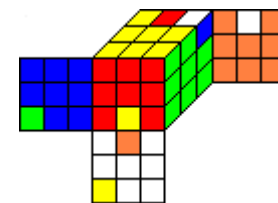
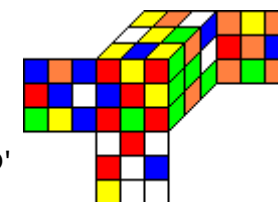
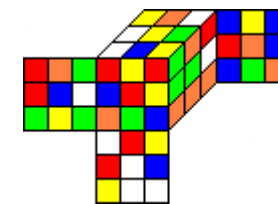
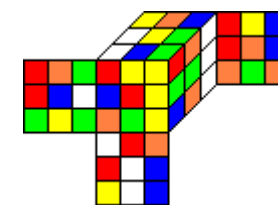
tm F<sup>2</sup> M U M U<sup>2</sup> M' U M' U M' U<sup>2</sup> F<sup>2</sup>

After this step, you should get this: D<sup>2</sup> B<sup>2</sup> L<sup>2</sup> B L<sup>2</sup> D<sup>2</sup> B<sup>2</sup> D<sup>2</sup> F' D<sup>2</sup> R<sup>2</sup> B<sup>2</sup> R<sup>2</sup> F

#### 5. Parity

- Corners messed up = 38
- Edges messed up = m & c
- Whenever you have parity using the 3OP/M2 method, you must keep track of the corners that need to be switched and then also switch the m/v and c/t edges
- To do this, do setup moves then use any PLL case that switches 2 corners and two edges
  - It might be convenient to consistently use 1 or 2 PLLs for this
- Restrict the set-up moves to the (UDF<sup>2</sup>B<sup>2</sup>R<sup>2</sup>L<sup>2</sup>) group

(38)(mc) F<sup>2</sup> L<sup>2</sup> y' [Nb-Perm=(R'URU')(R'F'U')(FRU)(R'FR'F')(RU'R)] y L<sup>2</sup> F<sup>2</sup>



## Credits

**Mackey** - [http://cubefreak.net/bld/m2\\_guide.html](http://cubefreak.net/bld/m2_guide.html)  
**Mackey** - [http://cubefreak.net/bld/3op\\_guide.html](http://cubefreak.net/bld/3op_guide.html)  
**Pochmann** - <http://www.stefan-pochmann.de/spocc/blindsolving/M2R2/>  
**Thrawst** - <http://www.youtube.com/watch?v=Glofu4BRv0o>  
**Eric Limeback** - <http://www.youtube.com/watch?v=ncpkVvIEckc>

## Macky's Example Solve 3 – M2/3OP, No Parity

Scramble - D' B' F R' F<sup>2</sup> U F L<sup>2</sup> D<sup>2</sup> B' U<sup>2</sup> R<sup>2</sup> D' L<sup>2</sup> F R' D' F U L' F U' R B<sup>2</sup> U'  
 Corners only scramble - D L<sup>2</sup> B<sup>2</sup> F<sup>2</sup> U' B<sup>2</sup> L<sup>2</sup> D' R<sup>2</sup> D' L<sup>2</sup> U L<sup>2</sup> U B' R<sup>2</sup> D' B' R<sup>2</sup> U' B U'  
 Edges only scramble - F<sup>2</sup> L' U<sup>2</sup> L R<sup>2</sup> U<sup>2</sup> R D<sup>2</sup> U<sup>2</sup> F<sup>2</sup> R<sup>2</sup> B D' R' B<sup>2</sup> L D B' F D' R'

### Memorization

#### Corners

CO - (1020)(5 7 8 0)  
 CP - (15 42 78 3)

#### Edges

EP - (wo sl fa i)(u ku)  
 EO - tp

### After Donning the Blindfold

#### 1. Corner Orientation

(1020) z'-(U'R'U)(RU'R'U)-L'-(U'RUR')(U'RU)-L-z  
 (578 0) FD [(U'RUR')(U'RUR')L']\*3 L' D'F'

After this step, you should get this:

U F<sup>2</sup> D<sup>2</sup> U' R<sup>2</sup> D' R<sup>2</sup> U' F L F<sup>2</sup> U B D R<sup>2</sup> D<sup>2</sup> F U<sup>2</sup> L B

#### 2. Corner Permutation

(154) DR<sup>2</sup>y x (R<sup>2</sup> D<sup>2</sup>)(R U R') D<sup>2</sup> (R U' R) x' y'R<sup>2</sup>D'  
 (127) B<sup>2</sup>y<sup>2</sup> x (R<sup>2</sup> D<sup>2</sup>)(R U R') D<sup>2</sup> (R U' R) x' y<sup>2</sup>B<sup>2</sup>  
 (183) DR<sup>2</sup>DR<sup>2</sup>U' x (R' U R') D<sup>2</sup> (R U' R')(D<sup>2</sup> R<sup>2</sup>) x' UR<sup>2</sup>D'R<sup>2</sup>D'

Note how "1" starts every cycle here

After this step, you should get this:

U' L<sup>2</sup> D<sup>2</sup> R<sup>2</sup> B<sup>2</sup> D<sup>2</sup> R<sup>2</sup> U B<sup>2</sup> D<sup>2</sup> L' D<sup>2</sup> B' F' R' D R<sup>2</sup> U' F' L'

#### 3. Edge Permutation

w	UR <sup>2</sup> U' M <sup>2</sup> UR <sup>2</sup> U'
o	FERUR'E'RUR'F'M <sup>2</sup>
s	R'URU' M <sup>2</sup> UR'U'R
l	x'UL <sup>2</sup> U' M <sup>2</sup> UL <sup>2</sup> U'x
f	URU' M <sup>2</sup> UR'U'
a	M <sup>2</sup> DR'UR'U'M'URU'MRD'
i	UR'U' M <sup>2</sup> URU'
u	LU'L'U M <sup>2</sup> U'LUL'
k	r'ULU' M <sup>2</sup> UL'U'r
u	LU'L'U M <sup>2</sup> U'LUL'

After this step, you should get this:

D F<sup>2</sup> L<sup>2</sup> R<sup>2</sup> U<sup>2</sup> L<sup>2</sup> F<sup>2</sup> R<sup>2</sup> D R<sup>2</sup> F<sup>2</sup> L' R' F' U<sup>2</sup> F' L R'

#### 4. Edge Orientation

tp L'F MUMUM<sup>2</sup>M'UM'UM'U<sup>2</sup> F'L

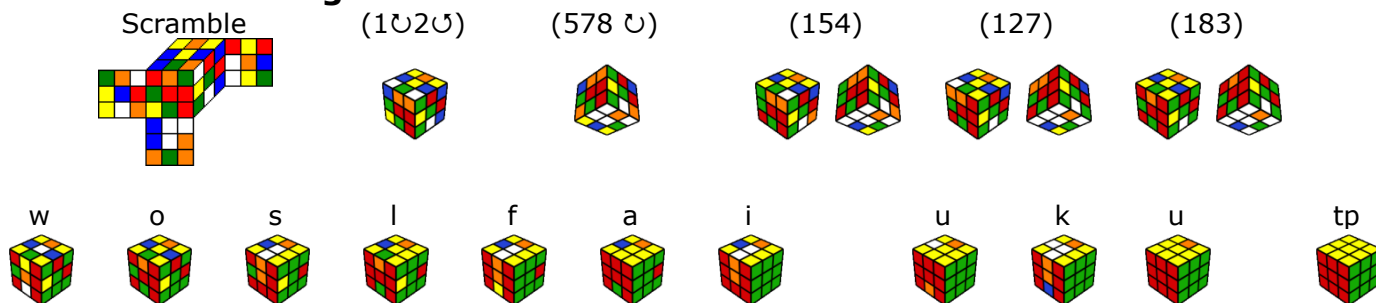
After this step, it should be solved

#### 5. Parity

None - because there were an even number of edges and corners that needed to be permuted

After this step, it should be solved

### Picture Walkthrough



## Macky's Example Solve 4 – M2/3OP, Parity

Scramble - F D<sup>2</sup> R<sup>2</sup> D' B<sup>2</sup> L F' B R' L U' F<sup>2</sup> D B<sup>2</sup> L' U<sup>2</sup> L F' B' R' L' D<sup>2</sup> R' L<sup>2</sup> F'

### Memorization

#### Corners

CO - (345 0)(678 0)  
 CP - (1286)(457)

#### Edges

EP (jo hc g) goes back to m/v so start new cycle immediately  
 (w zs n) went back to beginning of cycle, since this is second cycle, go back to beginning of cycle  
 (u lr d) odd number of edges thus parity  
 EO - none

### After Donning the Blindfold

#### 1. Corner Orientation

(345 0) BU' [(U'RUR')(U'RUR')L']\*3L' UB'  
 (678 0) xy [(U'RUR')(U'RUR')L']\*3L' y'x'

After this step, you should get this:

D L<sup>2</sup> D<sup>2</sup> U' B<sup>2</sup> R<sup>2</sup> B<sup>2</sup> L<sup>2</sup> R' F<sup>2</sup> R' D<sup>2</sup> U<sup>2</sup> B' L<sup>2</sup> U R' D L<sup>2</sup> F

#### 2. Corner Permutation

(128) B<sup>2</sup>U' x (R<sup>2</sup> D<sup>2</sup>)(R U R') D<sup>2</sup> (R U' R) x' UB<sup>2</sup>  
 (16) Parity left  
 (457) DR<sup>2</sup>DF<sup>2</sup> x (R' U R') D<sup>2</sup> (R U' R')(D<sup>2</sup> R<sup>2</sup>) x' F<sup>2</sup>D'R<sup>2</sup>D'

After this step, you should get this:

U<sup>2</sup> R<sup>2</sup> F<sup>2</sup> L<sup>2</sup> U<sup>2</sup> B<sup>2</sup> L D B' U' F D<sup>2</sup> F L B<sup>2</sup> F' D' U F' U<sup>2</sup>

#### 3. Edge Permutation

j	U'LU M <sup>2</sup> U'L'U
o	FERUR'E'RUR'F'M <sup>2</sup>
h	IUR'U M <sup>2</sup> URU'I'
c	F <sup>2</sup> MUMUM <sup>2</sup> M'UM'UM'U <sup>2</sup> F <sup>2</sup> M <sup>2</sup>
g	x'U'R <sup>2</sup> U M <sup>2</sup> U'R <sup>2</sup> Ux
w	UR <sup>2</sup> U' M <sup>2</sup> UR <sup>2</sup> U'
z	U'L <sup>2</sup> U M <sup>2</sup> U'L <sup>2</sup> U
s	R'URU' M <sup>2</sup> UR'U'R
n	x'U'R'U M <sup>2</sup> U'R Ux

u	LU'L'U M <sup>2</sup> U'LUL'
l	x'UL <sup>2</sup> U' M <sup>2</sup> UL <sup>2</sup> U'x
r	MU <sup>2</sup> MU <sup>2</sup>

d x'UL'U' M<sup>2</sup>ULU'x Odd # of M<sup>2</sup>, so do an M<sup>2</sup>

After this step, you should get this: F<sup>2</sup> R<sup>2</sup> U R<sup>2</sup> U<sup>2</sup> F<sup>2</sup> U' R<sup>2</sup> U<sup>2</sup> R<sup>2</sup> F<sup>2</sup> U' F<sup>2</sup> U<sup>2</sup>

#### 4. Edge Orientation

None

#### 5. Parity

(16)(mc) UF<sup>2</sup> y' [Ra-Perm = (RU<sup>2</sup>)(R'U<sup>2</sup>)(RB'R')U'RURBR<sup>2</sup>U] y F<sup>2</sup>U'

