

# 100 Rubik's Cube Sudoku Puzzles

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*Sudoku for cubers*

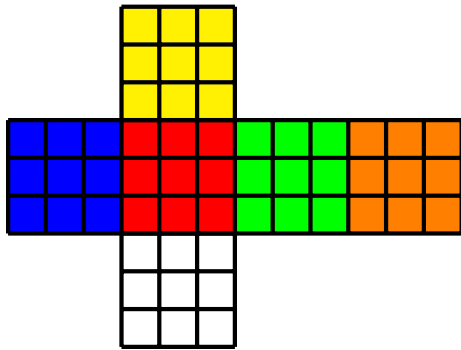
Made by **Zixing Wang**

# Preface

## Rules

Cube Sudoku is to fill colors in a  $3 \times 3 \times 3$  Rubik's cube with the Western color scheme. Once the puzzle is solved, this means that the state is solvable by legal moves (that is, without taking the cube apart again).

## Western color scheme



## Solutions

Each problem has only one solution. Solution can be accessed after each problem. You can apply the scramble in the solution to your Rubik's cube with yellow on the top and red on the front.

## Acknowledgement

Thanks to Xi'an Jiao Tong University Rubik's Cube Club, for providing the idea of "Cube Sudoku".

## Github link

<https://github.com/nbwzx/CubeSudoku>

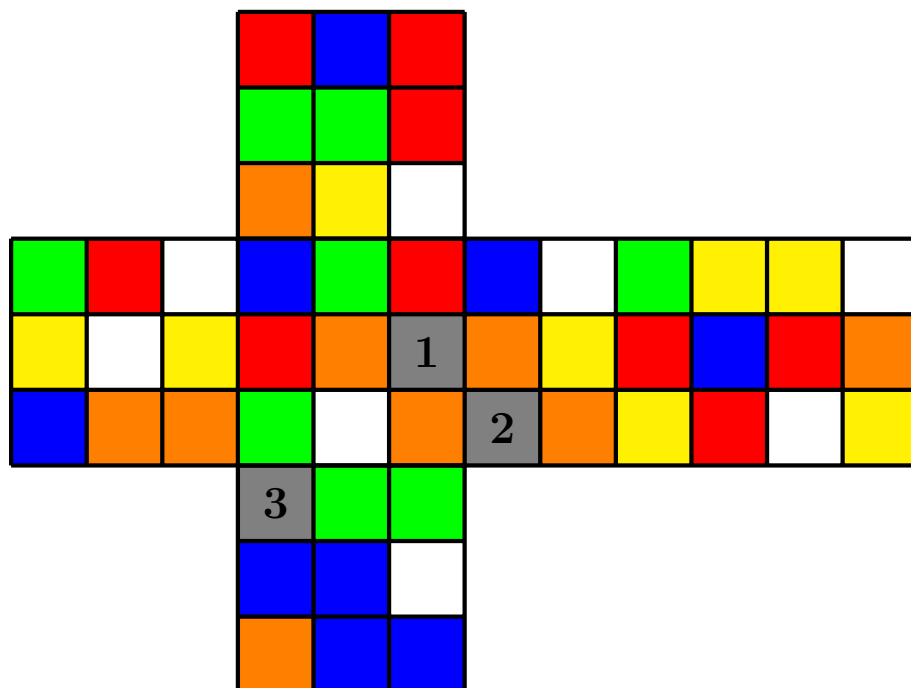
## Contributors

Zixing Wang

## License

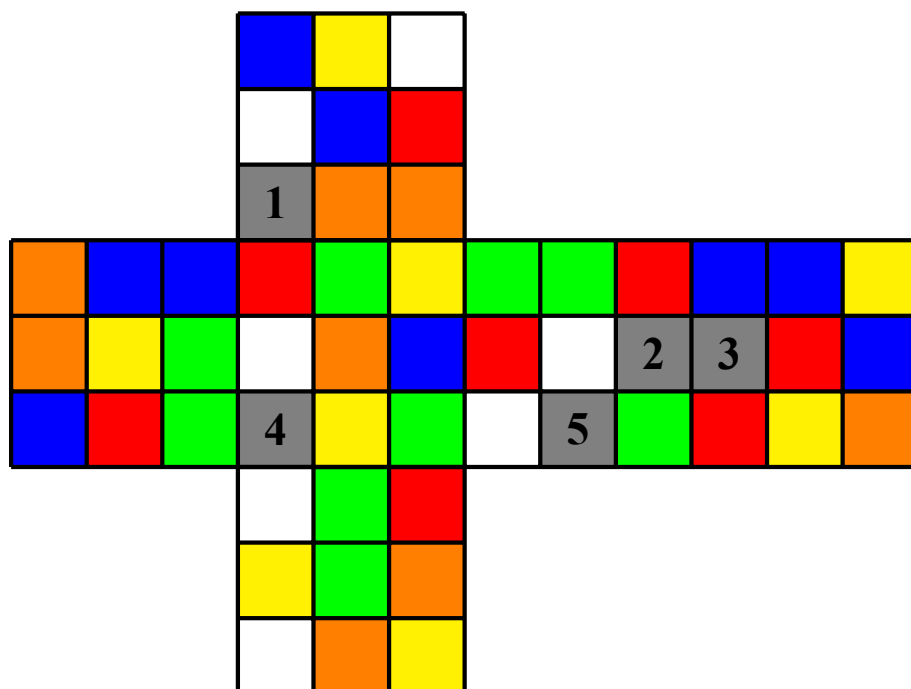
MIT License

No. 1      Difficulty:★



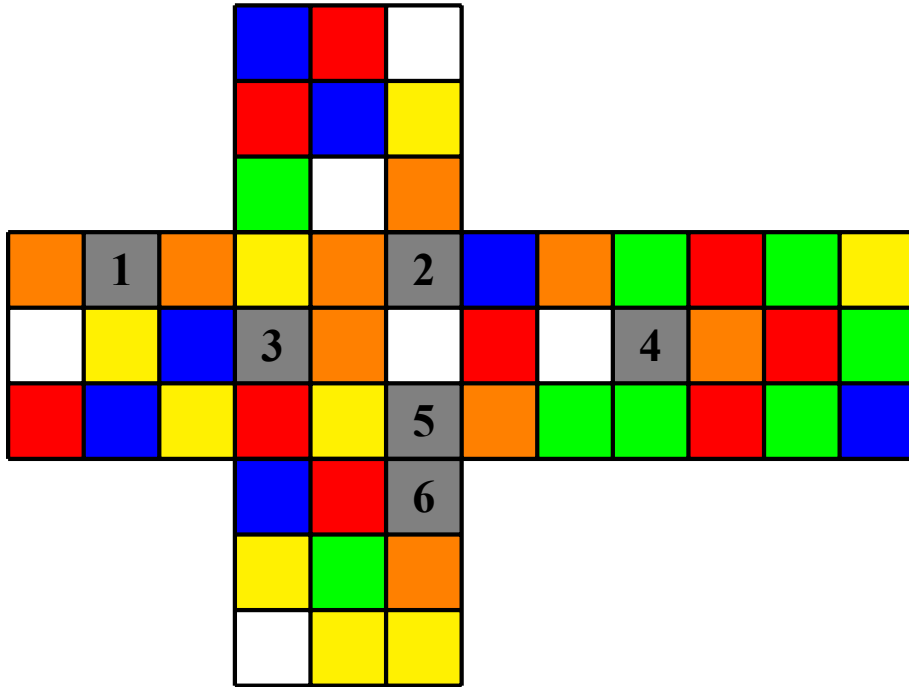
Solution 1: F R L U' L U D' U R' D2 L F2 U B' U D' U F' D2 R' Fw' Uw2

No. 2      Difficulty:★



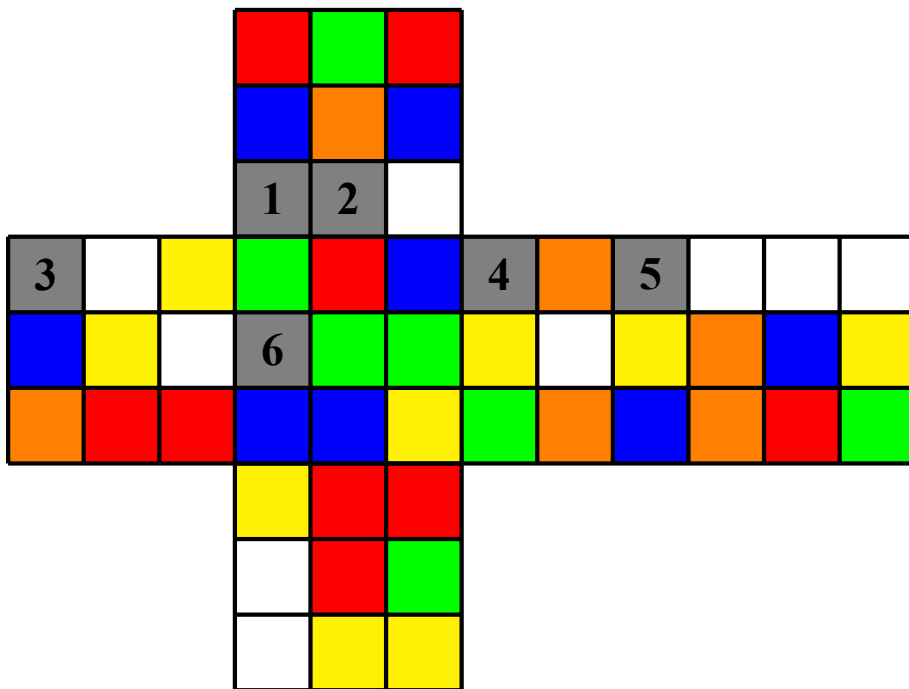
Solution 2: D2 B2 D2 R' L2 U D' B' L B L2 F2 D' F' U2 L2 F' U' D L' Fw Uw2

**No. 3      Difficulty: ★**



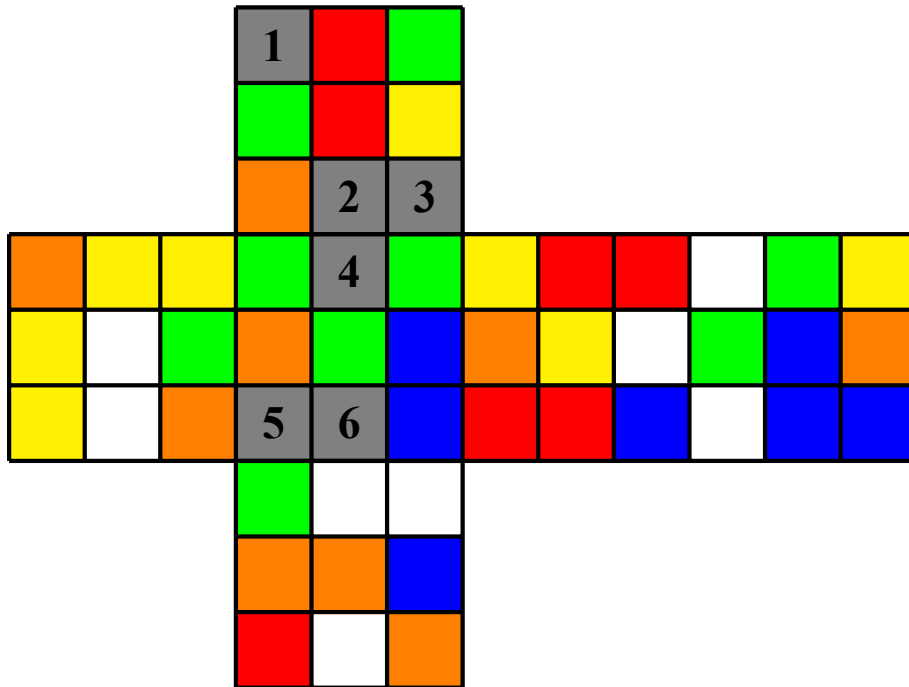
**Solution 3:** U' D' B R F' L B F' U' B2 L' U L' D L2 U' B F' D2 U Fw Uw2

**No. 4      Difficulty:★**



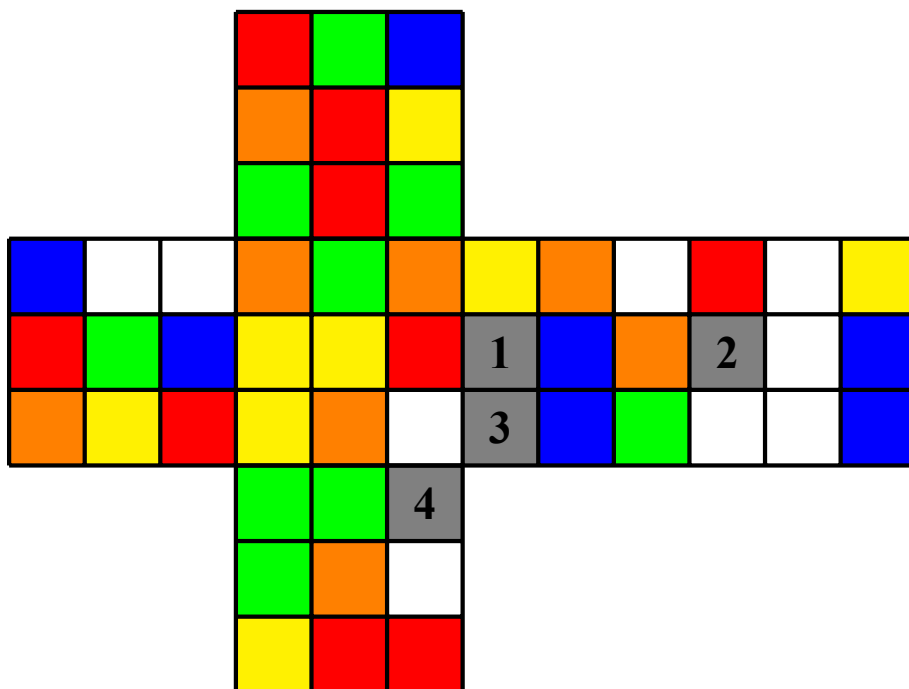
**Solution 4:** B' D2 U' F' B2 R' B' U F' B' U2 D' L' B2 U2 F' D' L' B2 D' Rw' Uw

**No. 5      Difficulty:★**



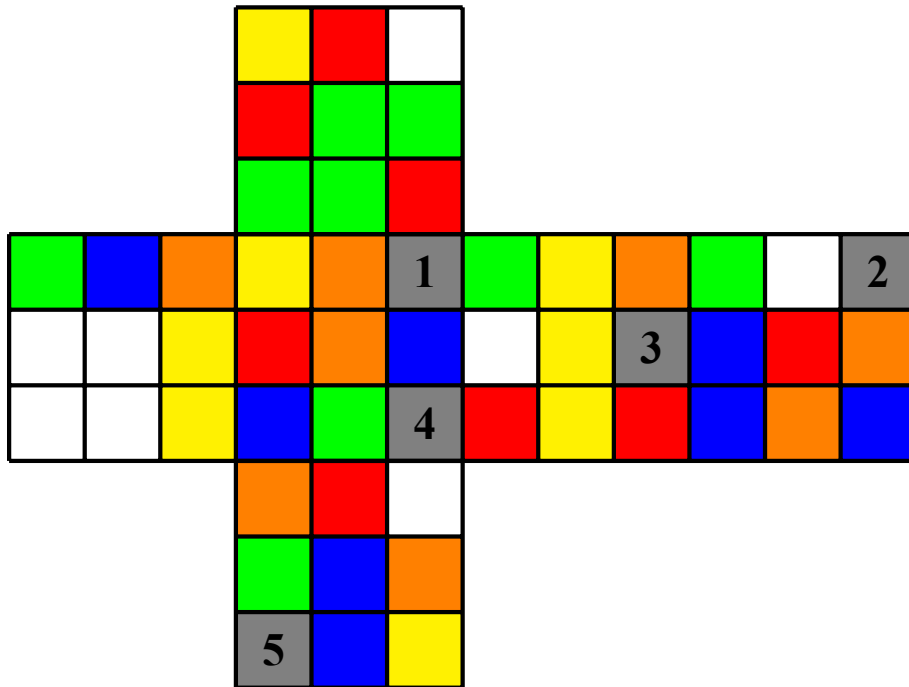
**Solution 5: B' F2 R' U D2 B R B' R2 D R U R' U R2 D2 R2 L B L2 Rw Uw**

**No. 6      Difficulty:★**



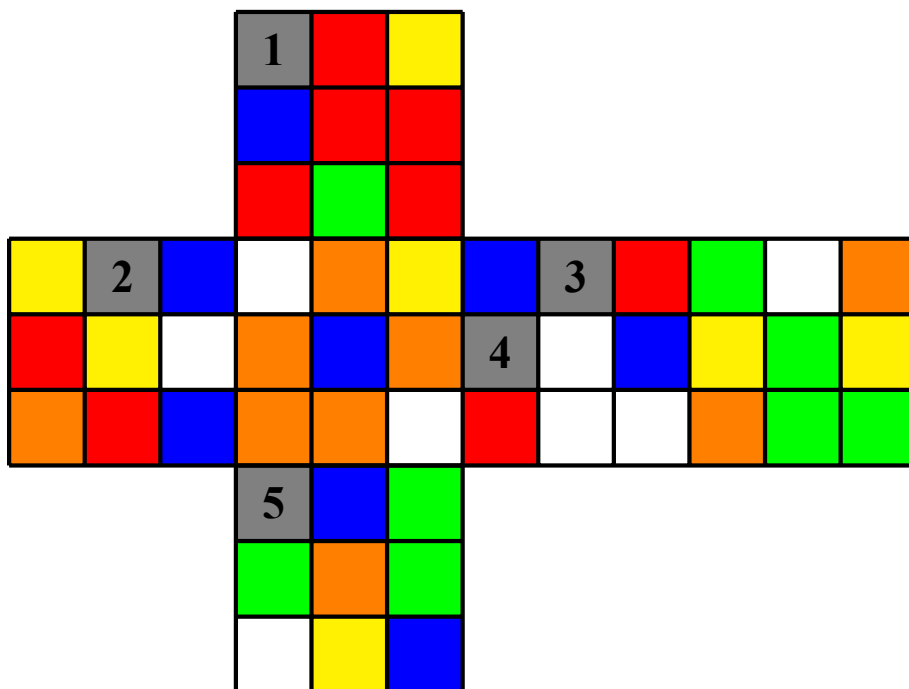
**Solution 6: B R2 F' B R2 L2 F2 L' U L2 U' F2 D' U2 R2 L F' U2 D' F Rw Uw2**

**No. 7      Difficulty:★**



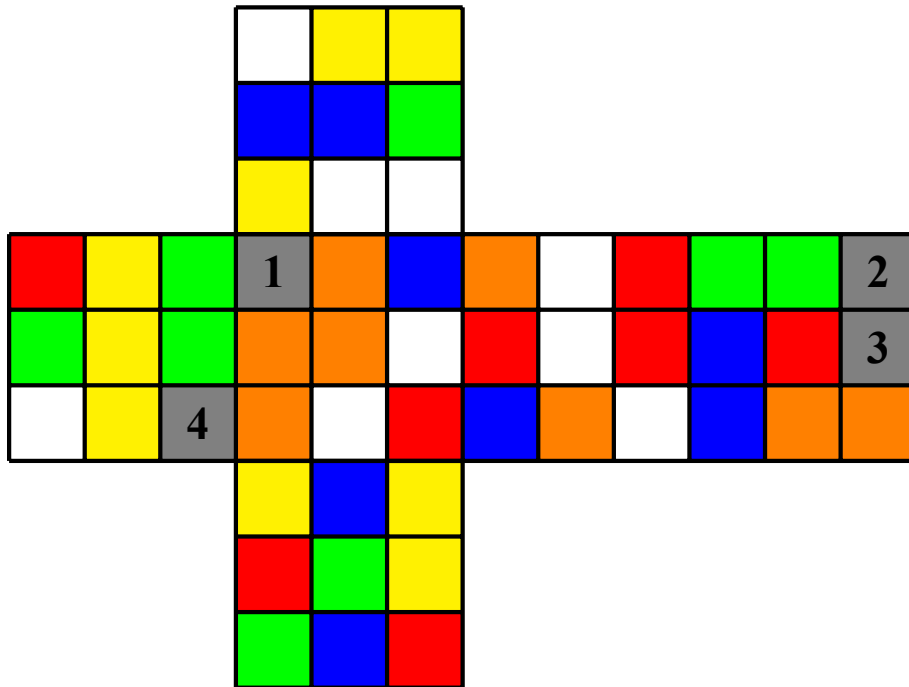
**Solution 7: B R' F' D' B' D2 F' R' D2 F' U F2 D' L2 F U2 D L2 R B Fw' Uw2**

**No. 8      Difficulty:★**



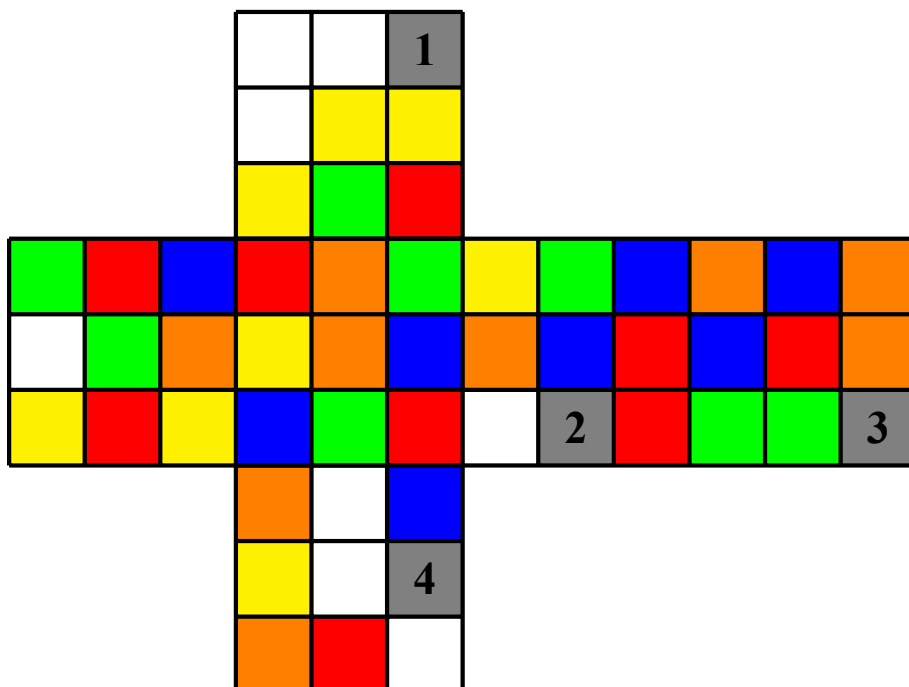
**Solution 8: R2 F U B' D U2 R' B F' D U' B2 L U2 D' L' U' L2 F' L' Rw Uw'**

**No. 9      Difficulty: ★**



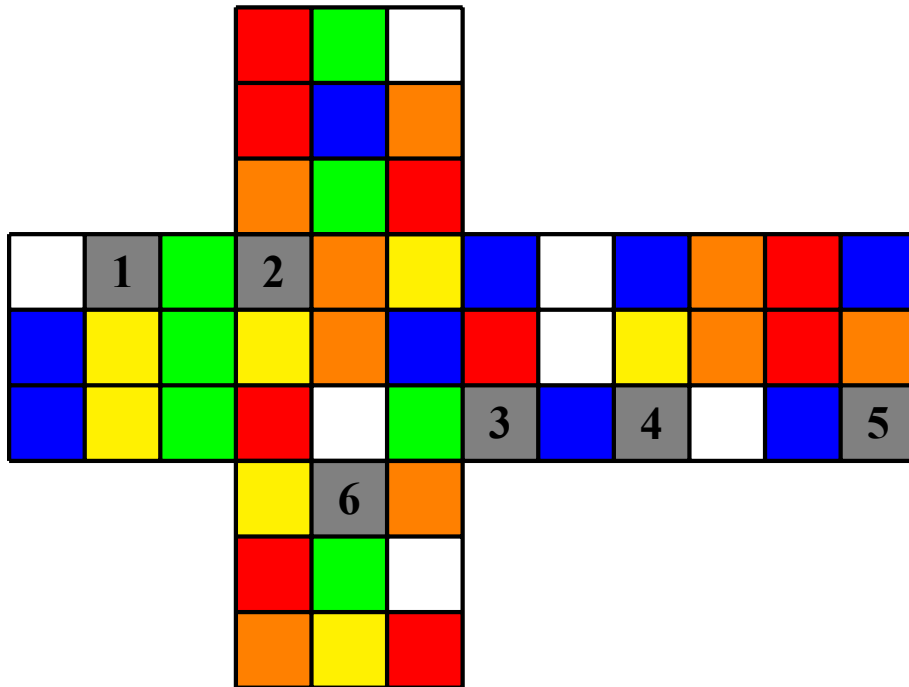
**Solution 9:** U' L2 U B U2 F2 D' U2 R2 L U' B' L' B' D2 R D R F B Fw Uw2

**No. 10      Difficulty:★**



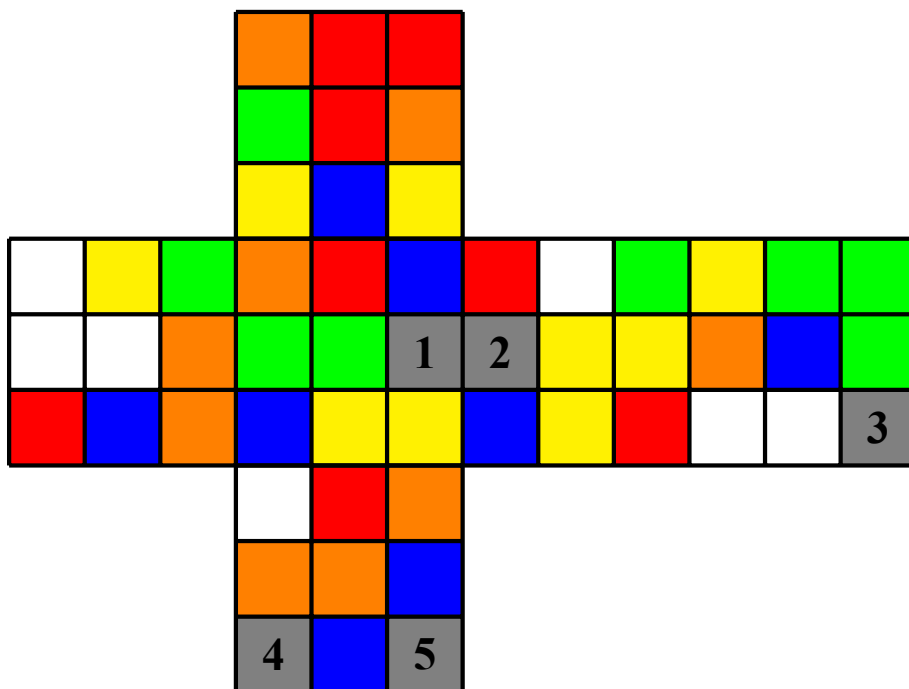
**Solution 10:** U2 R2 F2 R2 B2 F2 L D2 L' F B' L F2 D R U' F L U' R Uw2

**No. 11      Difficulty:★**



**Solution 11: D2 R B2 L2 B' L R' D L2 U R D' L D U2 B L R' B D2 Fw Uw2**

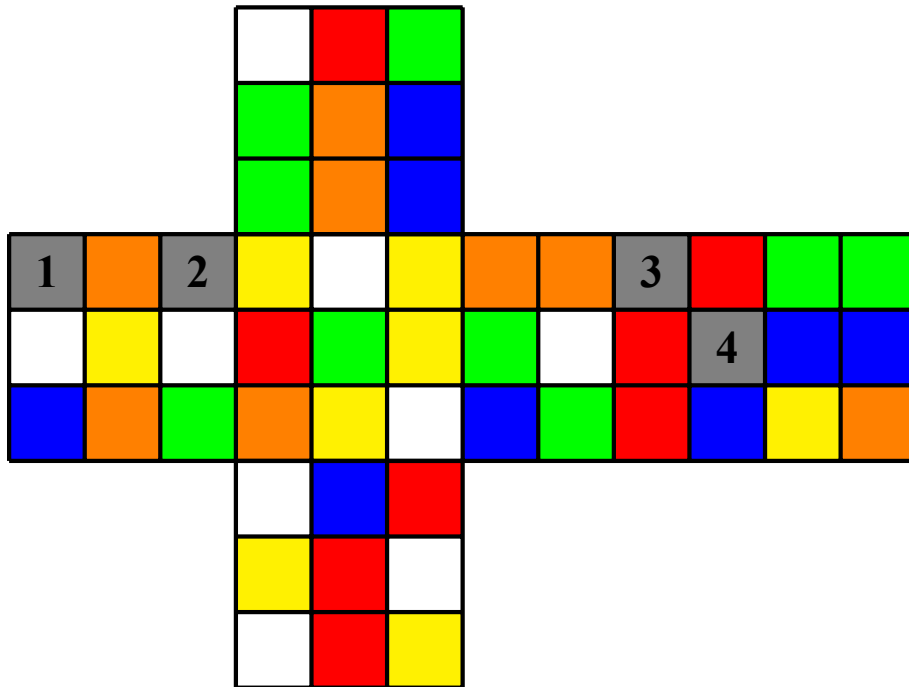
**No. 12      Difficulty:★**



**Solution 12: L D' U' B' L2 B' R2 L' F2 L U2 F2 D U L2 F2 R' U' F2 U' Rw Uw**

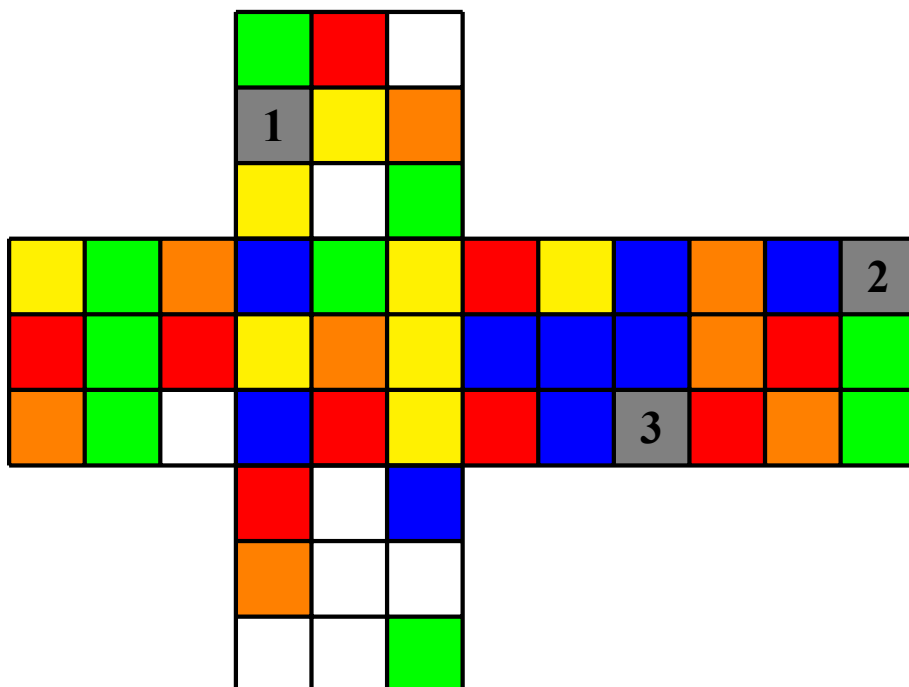


**No. 13      Difficulty:★**



**Solution 13: F2 R' L U2 B' L' B2 R2 B U2 L2 U2 D2 B2 R F2 D2 U' L2 D Rw' Uw**

**No. 14      Difficulty:★**

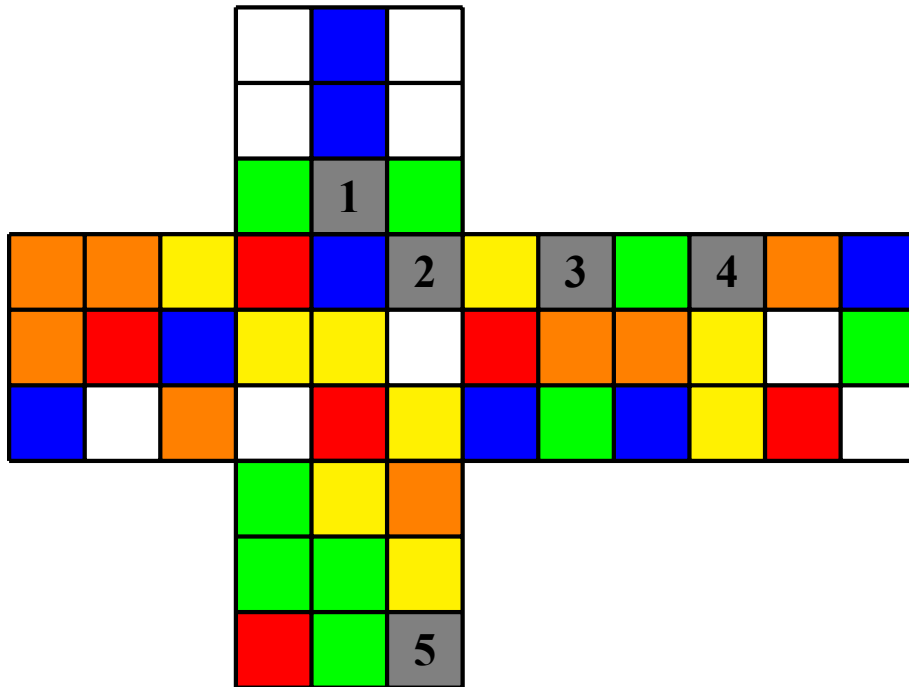


**Solution 14: F2 L2 D2 F2 L B' R D2 U R B' R U L2 B2 L' F L F' R Uw2**

[illegible]

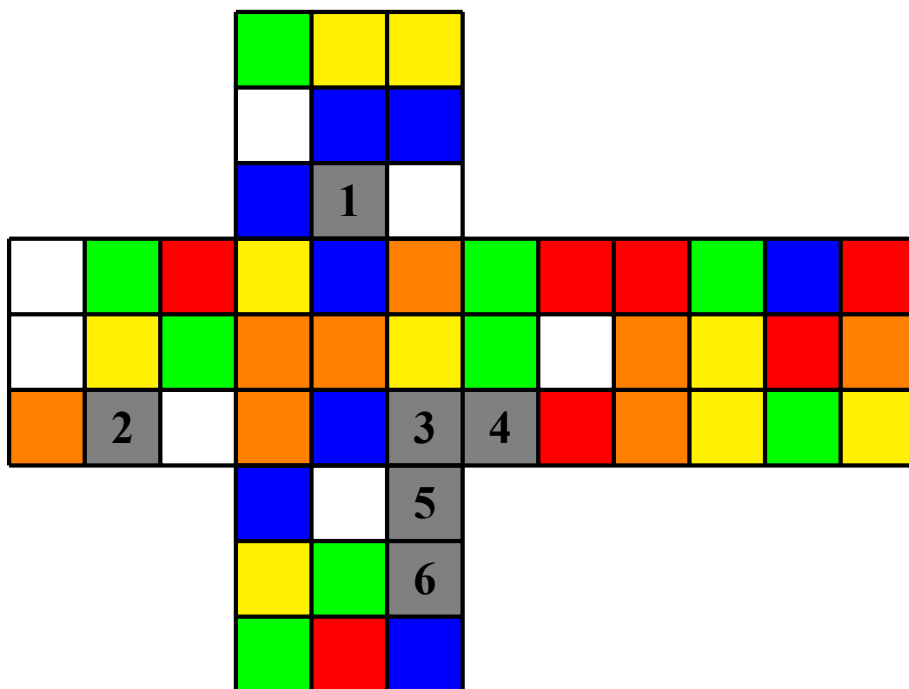
9

**No. 17      Difficulty:★**



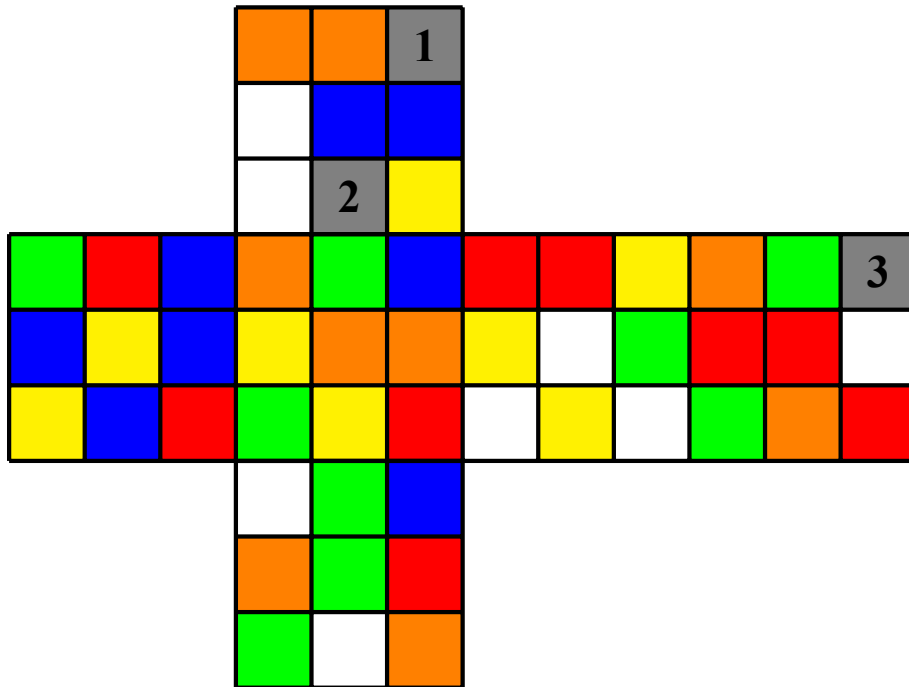
**Solution 17: F' R' D2 F2 L' D2 F2 B' R2 D2 R F' B2 U2 L2 B' R' L F' U' Fw Uw**

**No. 18      Difficulty:★**



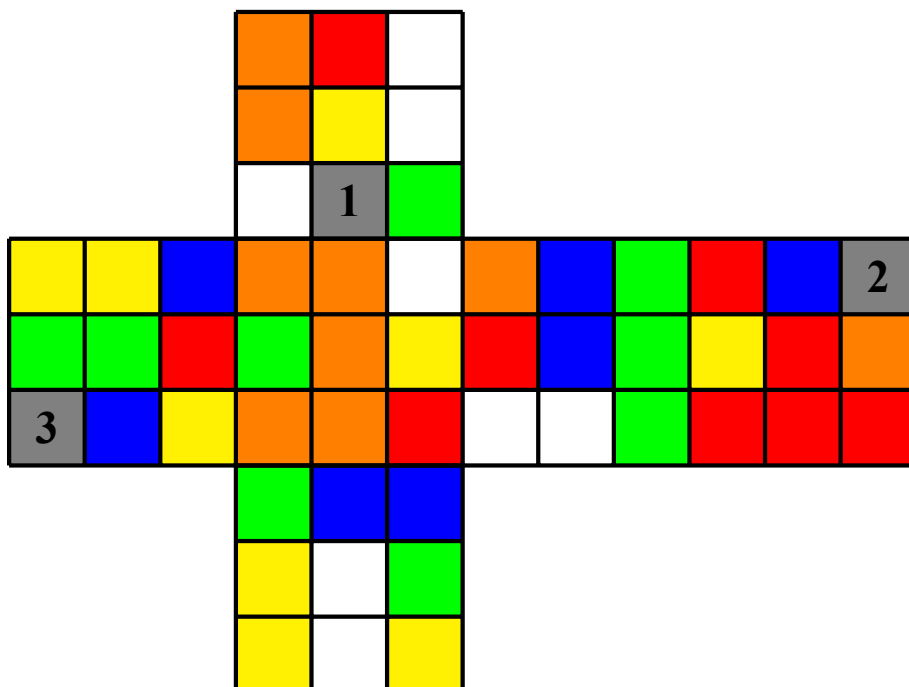
**Solution 18: R2 D' U2 L' U' B2 U' F' B D F' R L F R D2 U' B F2 R' Fw Uw2**

**No. 19      Difficulty:★**



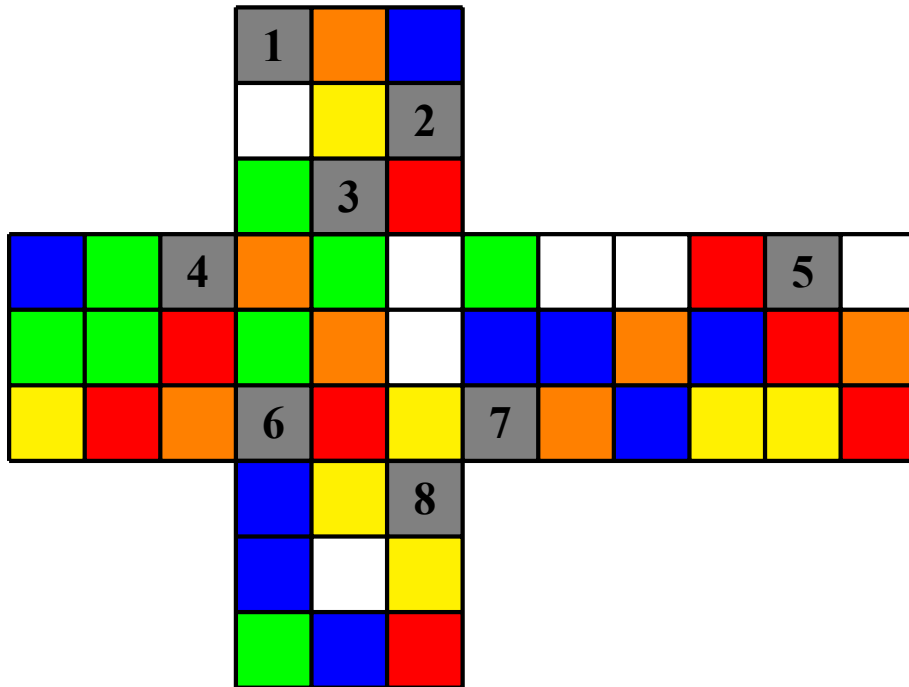
**Solution 19: L' U2 L D' B' D' L R2 D2 U' B' U F' R' U D2 R2 U2 B L2 Fw Uw2**

**No. 20      Difficulty:★**



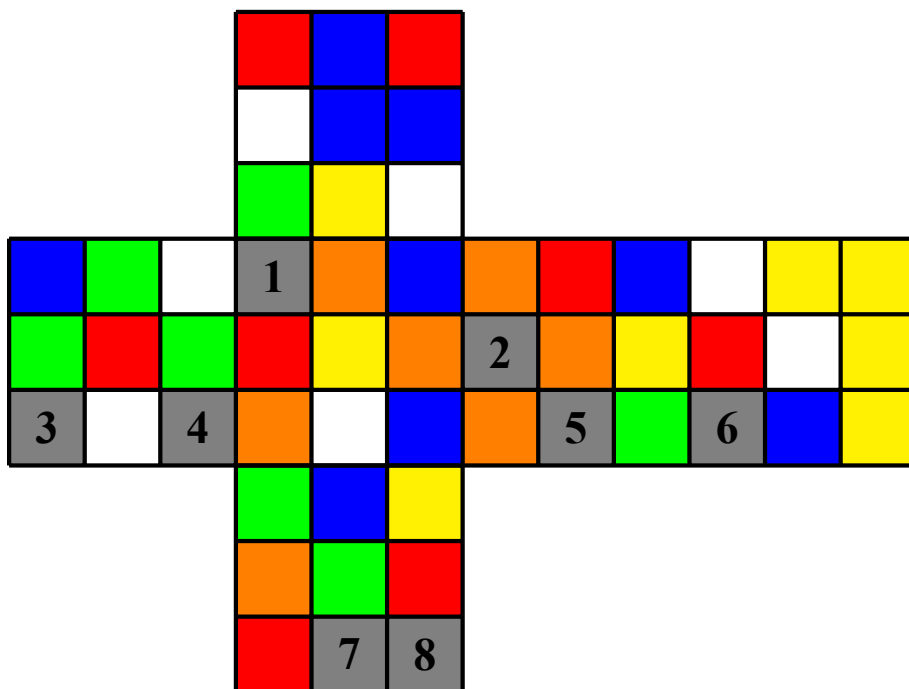
**Solution 20: U2 R2 L2 B L' D' L U2 L2 U L U B' L2 F R F' B2 L2 D' Uw2**

**No. 21      Difficulty:★★**



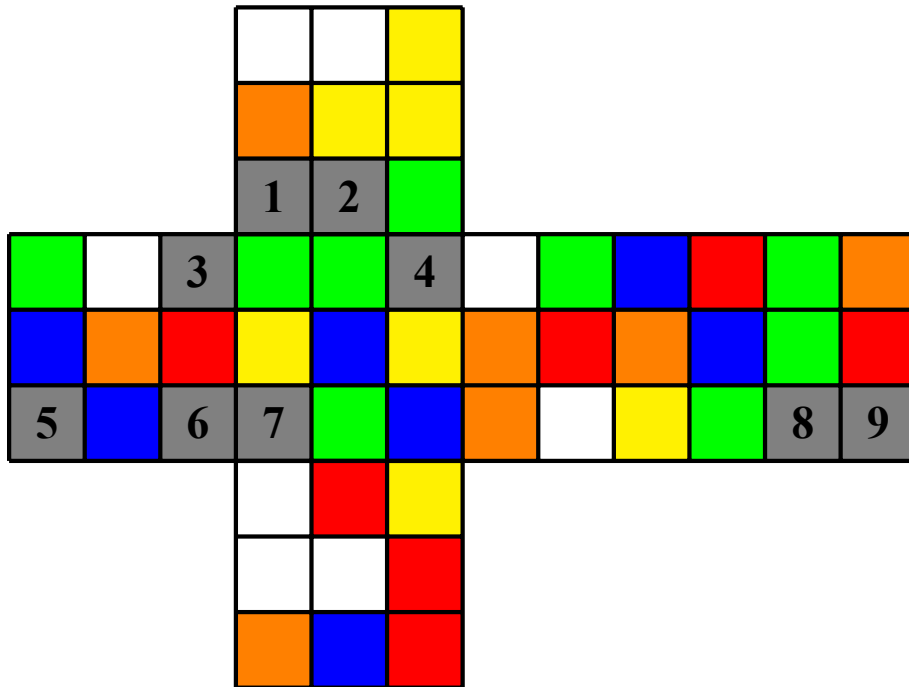
**Solution 21: B2 F' U L R' B2 L2 B' U' F2 L' U' B' U R2 F' U2 R' F' D' Uw2**

**No. 22      Difficulty:★★**



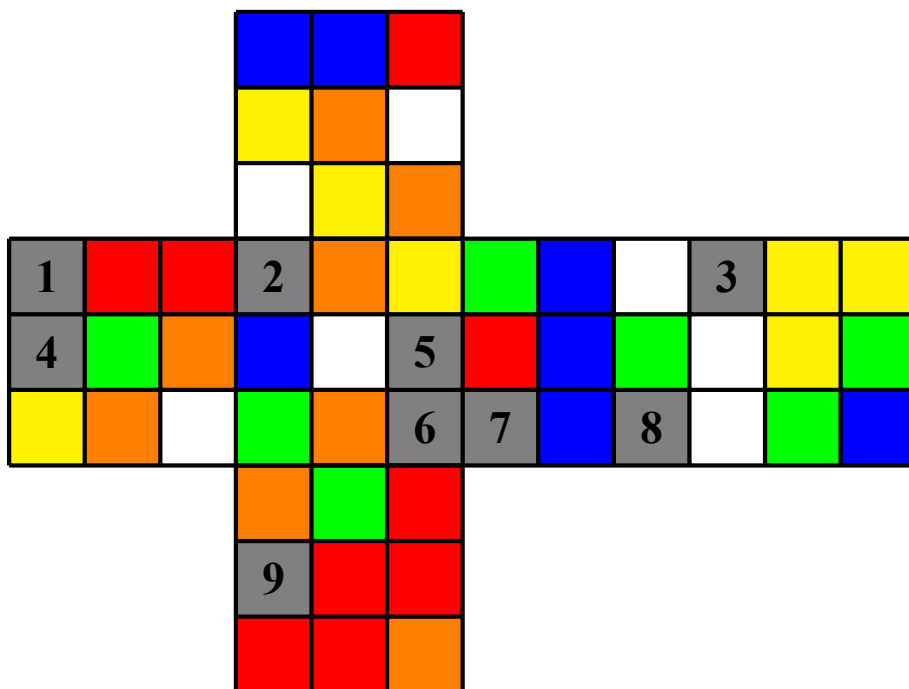
**Solution 22: L2 B R' F' U2 B2 F' U D' U' F2 R L' D2 L2 U D' F U' R2 Fw Uw**

**No. 23      Difficulty:★★**



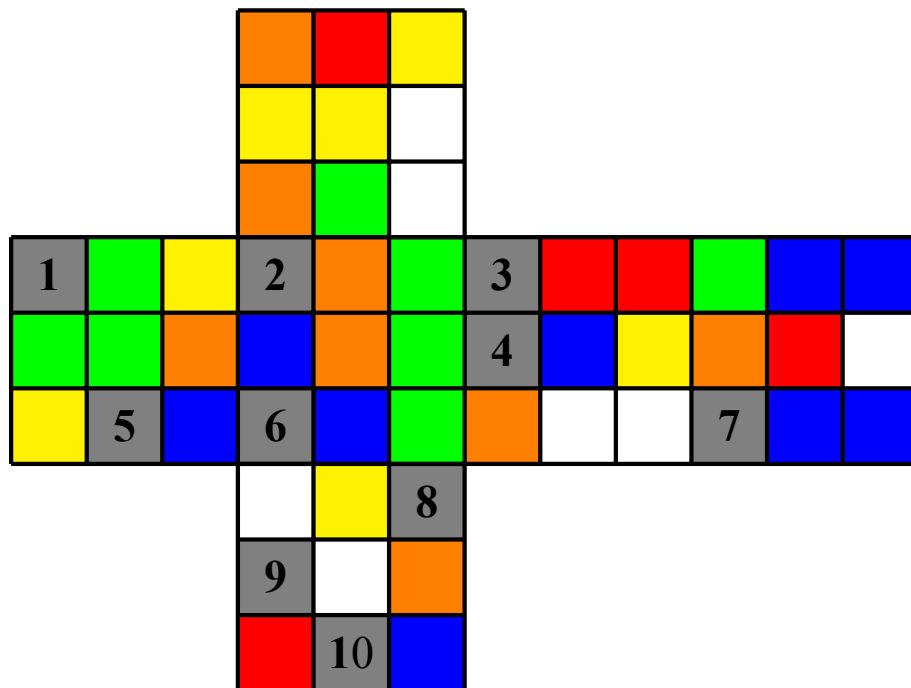
**Solution 23: U B2 R2 D' B' L2 F R' L' B R' F' D R2 F' L D' R B2 R Uw'**

**No. 24      Difficulty:★★**



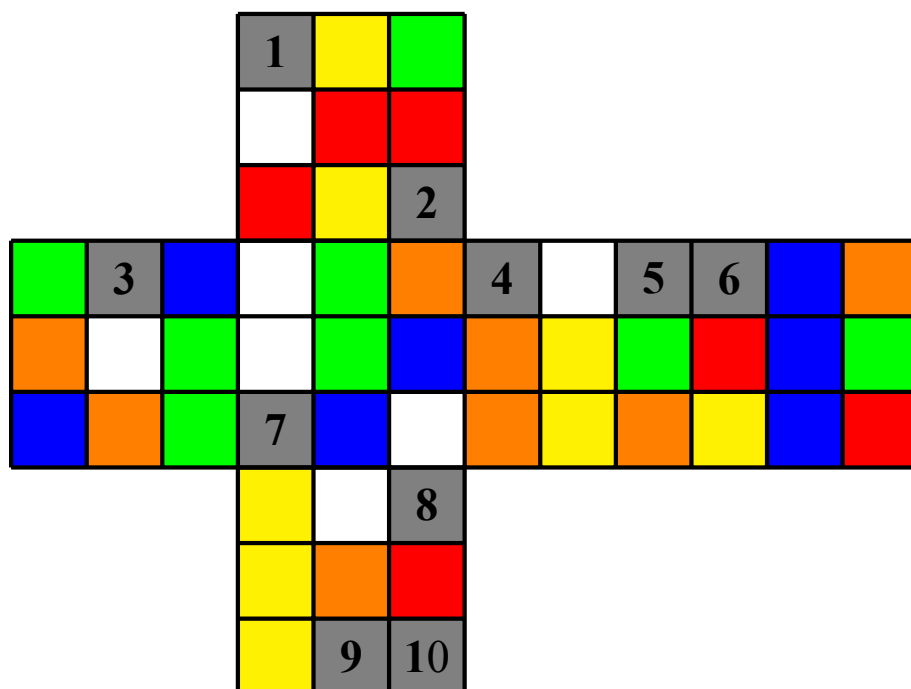
**Solution 24: U B F' R U' R2 L2 U2 F' U2 D2 F2 R2 F' B2 R' F' B' D B Rw' Uw2**

**No. 25      Difficulty:★★**



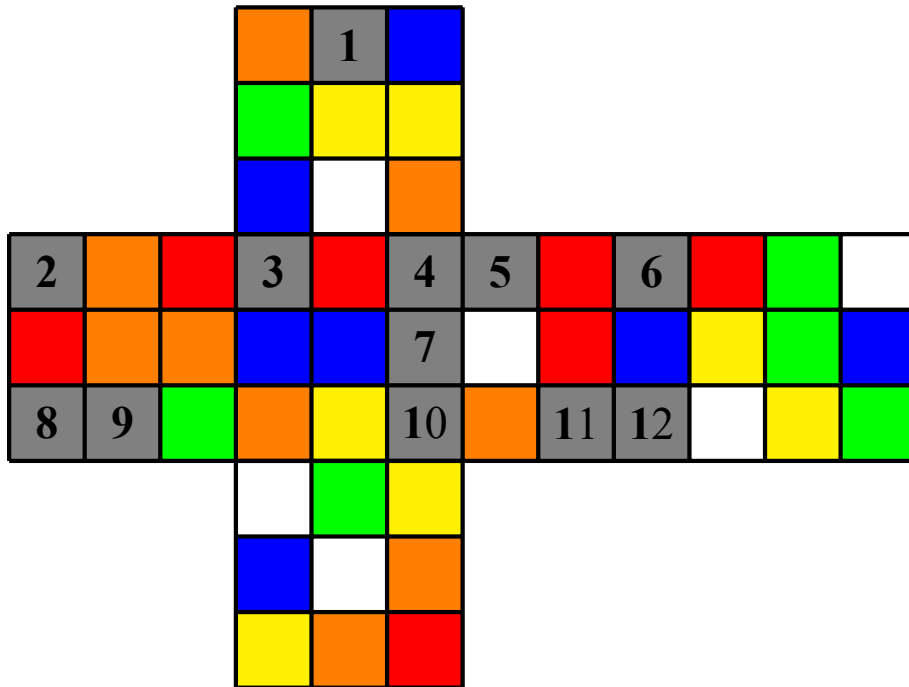
**Solution 25: B' R2 B2 D2 U' B' U' B L' R2 F2 D2 R2 D2 U F2 D' R2 U2 R Uw2**

**No. 26      Difficulty:★★**



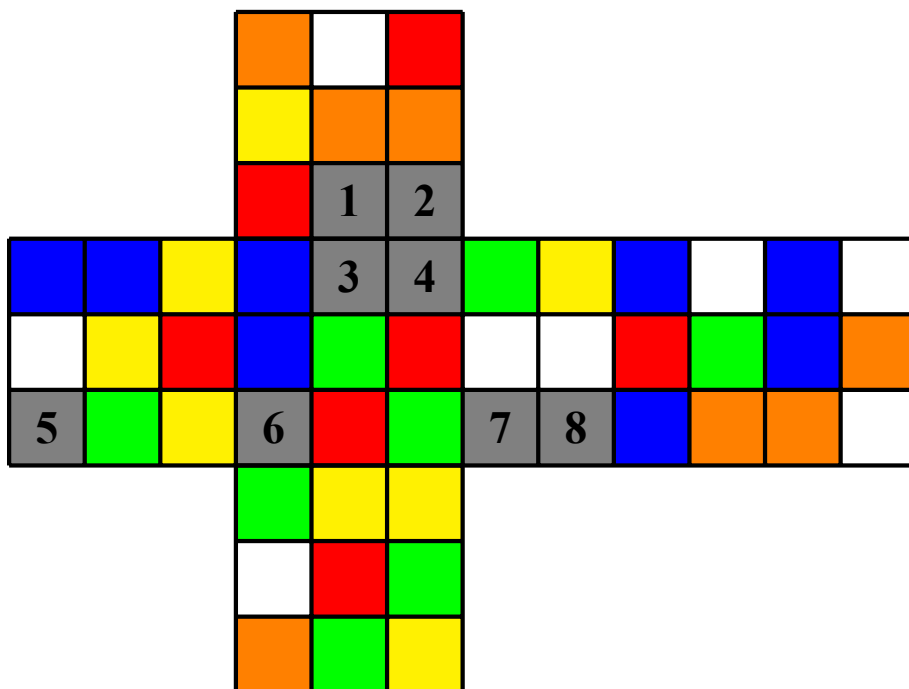
**Solution 26: B R' F R2 F' B R' B2 L2 U' D2 L U2 L2 R D2 U' F2 L' B Rw Uw**

**No. 27      Difficulty:★★**



**Solution 27: U D L' F' R' F2 R2 L B L D2 U' L' R' U' B D2 L2 R' B' Uw'**

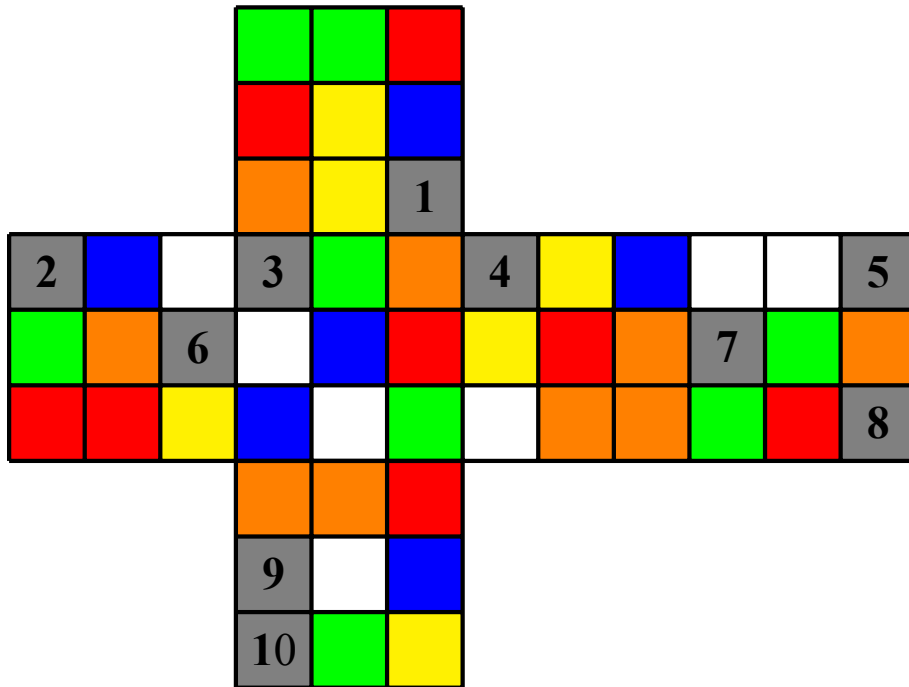
**No. 28      Difficulty:★★**



**Solution 28: U2 R' F2 L' U2 R D U L' F2 U' L2 U2 B F U F B' D U' Rw' Uw**

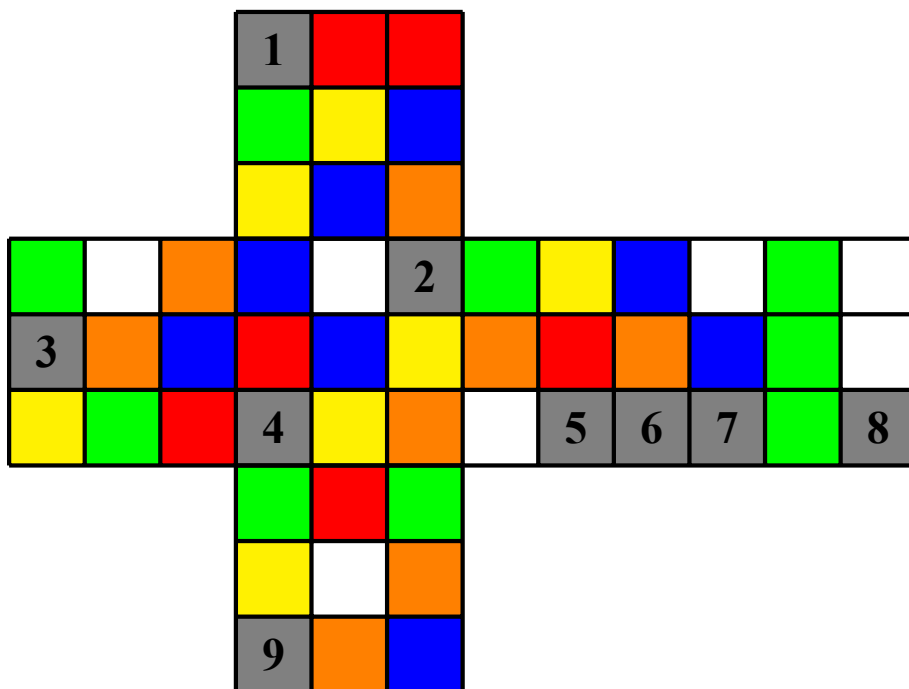


**No. 29      Difficulty:★★**



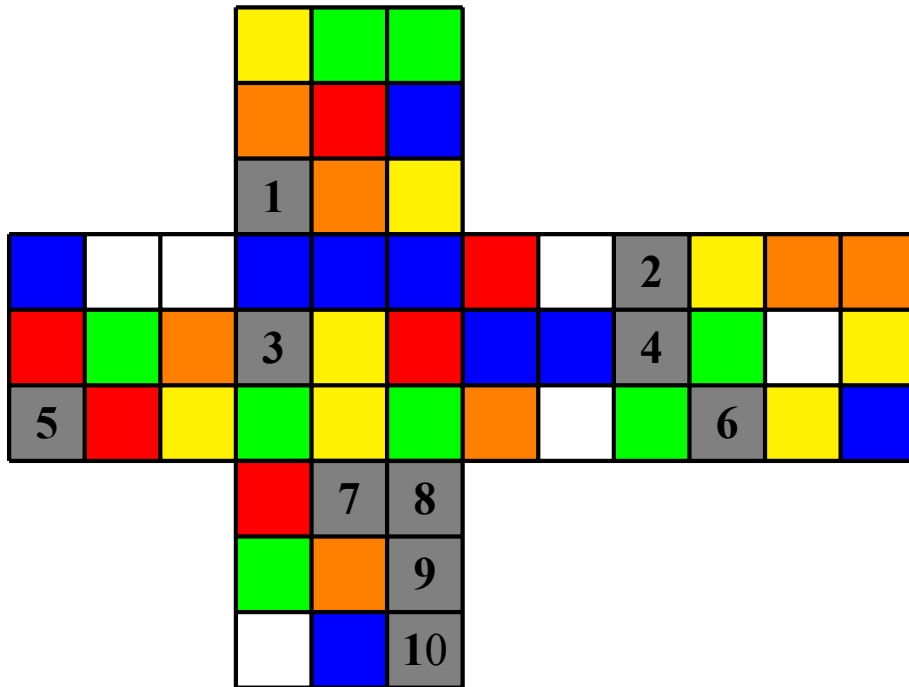
**Solution 29: R L2 U D B' D F' D R2 L D' R U2 L' F R2 U2 R' U' F2 Uw'**

**No. 30      Difficulty:★★**



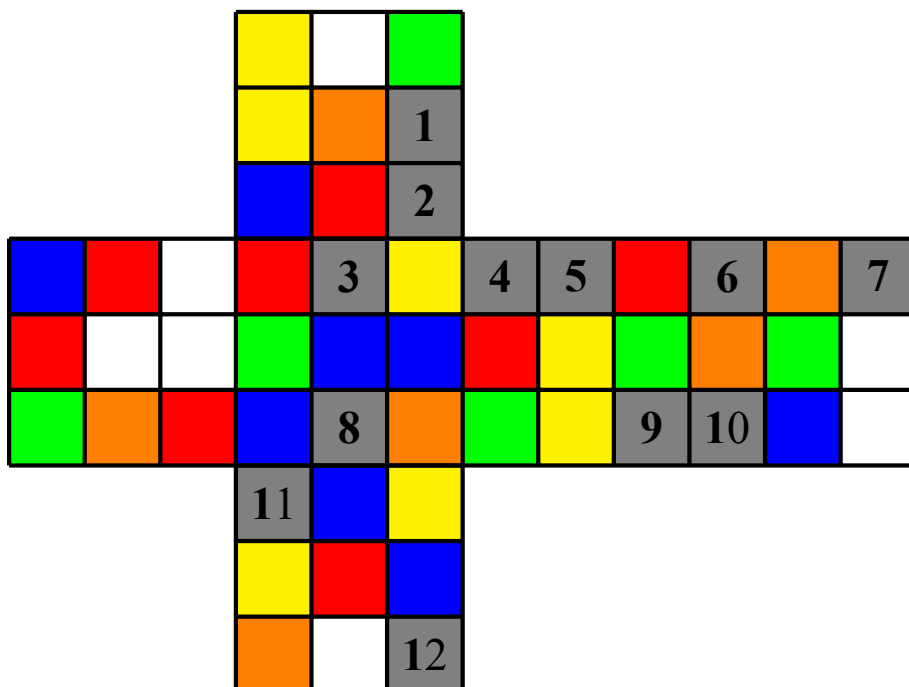
**Solution 30: R2 D2 B D' B' F' D B2 D' B' U2 B' D' R B L F D U2 R Uw'**

**No. 31      Difficulty:★★**



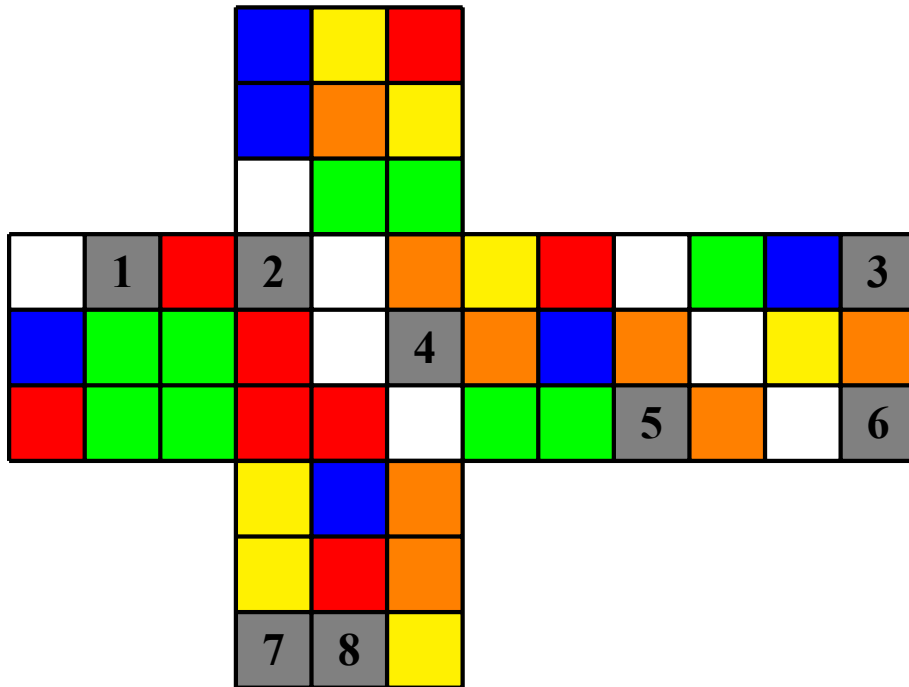
**Solution 31: F' B2 L F2 D F B' D R' F U' R' U F' R2 F2 R L2 D U' Rw Uw2**

**No. 32      Difficulty:★★**



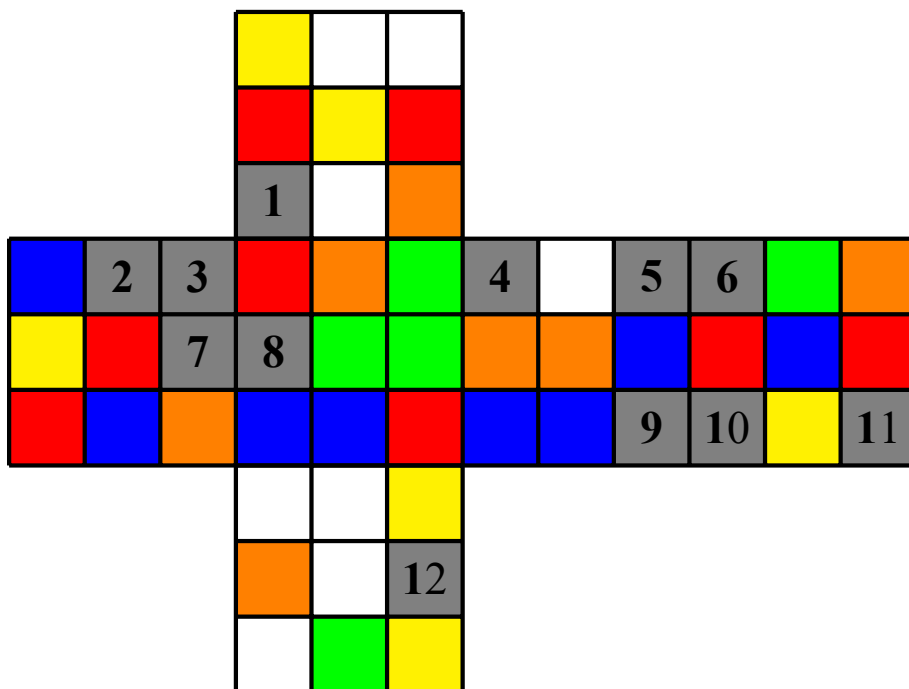
**Solution 32: R2 F2 R2 U' L D' F' B' U2 F2 U' L' F R' F' B' U L2 B U2 Rw' Uw'**

**No. 33      Difficulty:★★**



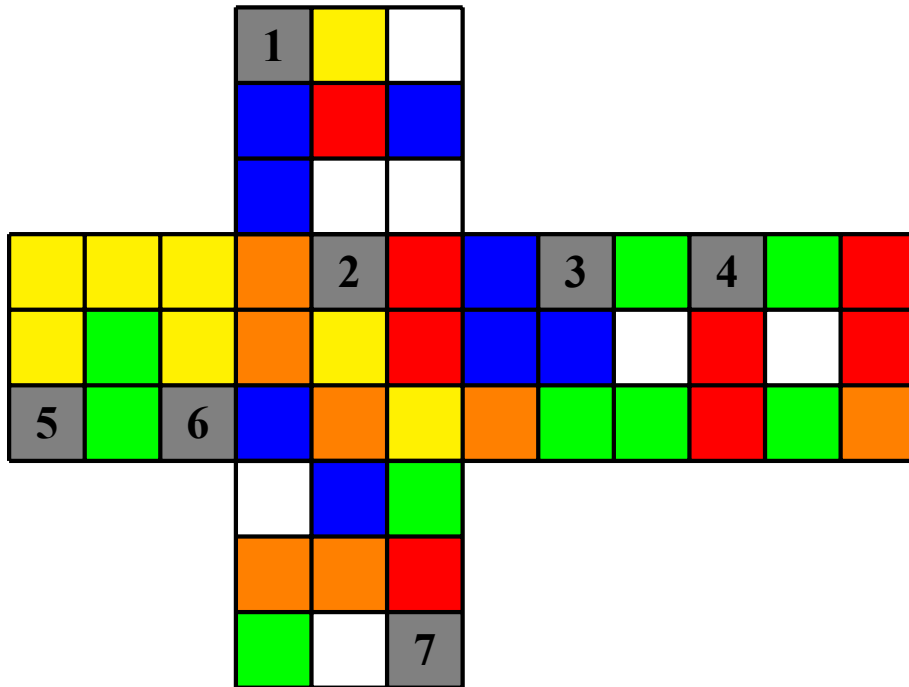
**Solution 33: F' L D' B2 F R D L2 B' F2 D' L2 F2 B2 R2 F2 U F' L F Rw' Uw2**

**No. 34      Difficulty:★★**



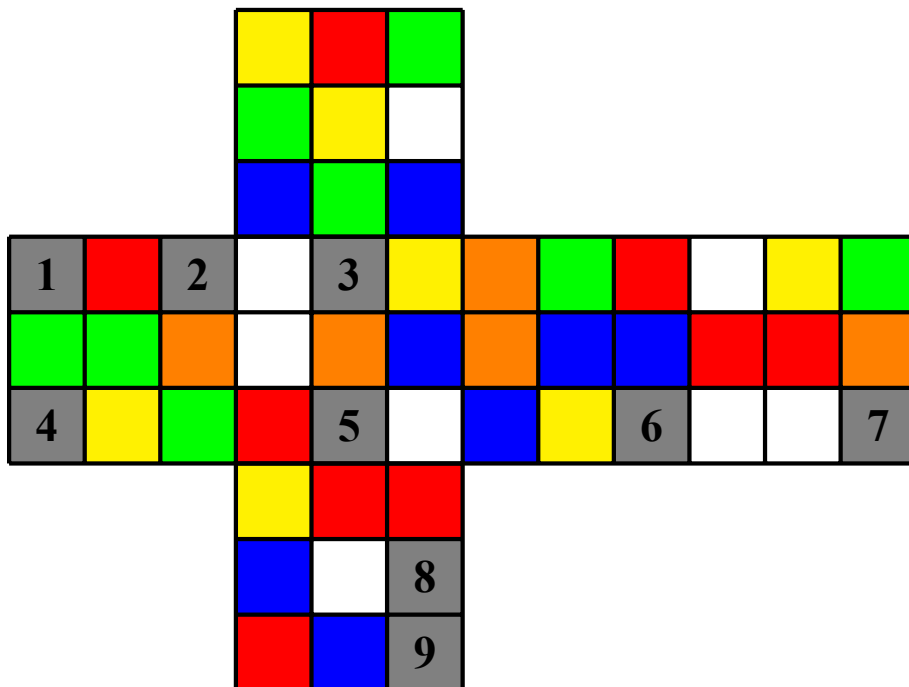
**Solution 34: F2 R L' B2 U' R D F D F' L' R2 D2 F2 B2 U' L2 R' F2 B' Uw**

**No. 35      Difficulty:★★**



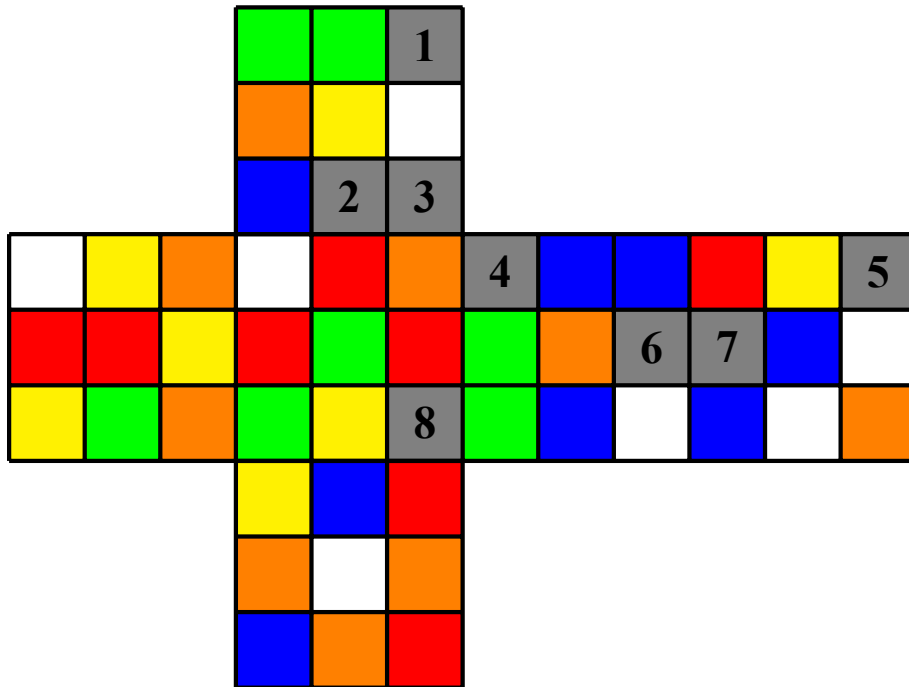
**Solution 35: U F R2 D2 F L B D' L B' R2 L U2 R2 F' R U2 B F' D' Rw Uw2**

**No. 36      Difficulty:★★**



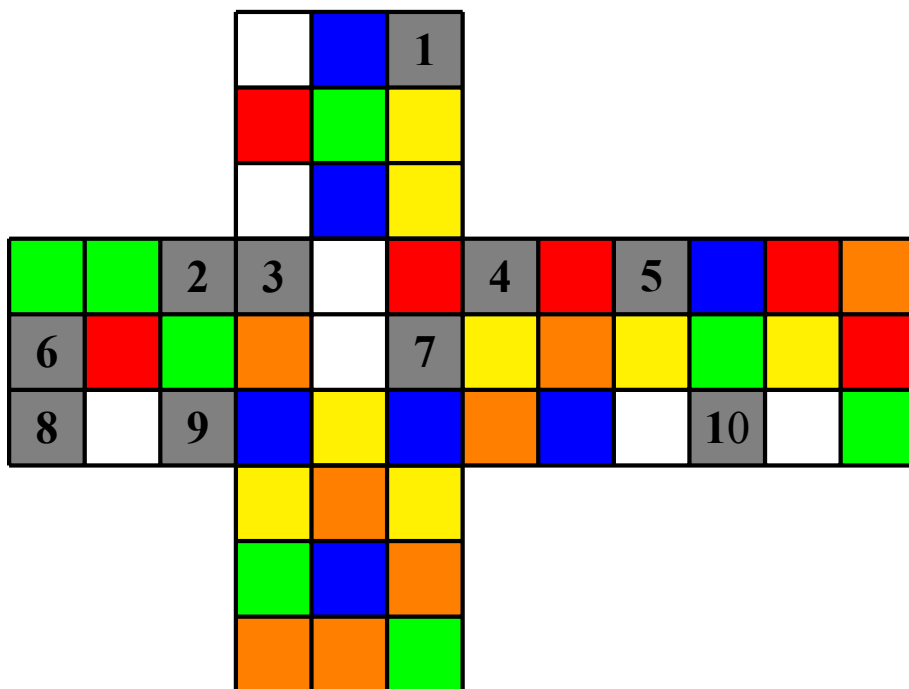
**Solution 36: B2 L' D2 U2 L' D2 R' B2 U2 L' R D' U2 B' U' F' L' R U' F' Uw2**

**No. 37      Difficulty:★★**



**Solution 37: D' B2 R' U L2 U B' L F' B' L2 F' D' B' F' D' L2 R' F R' Uw**

**No. 38      Difficulty:★★**

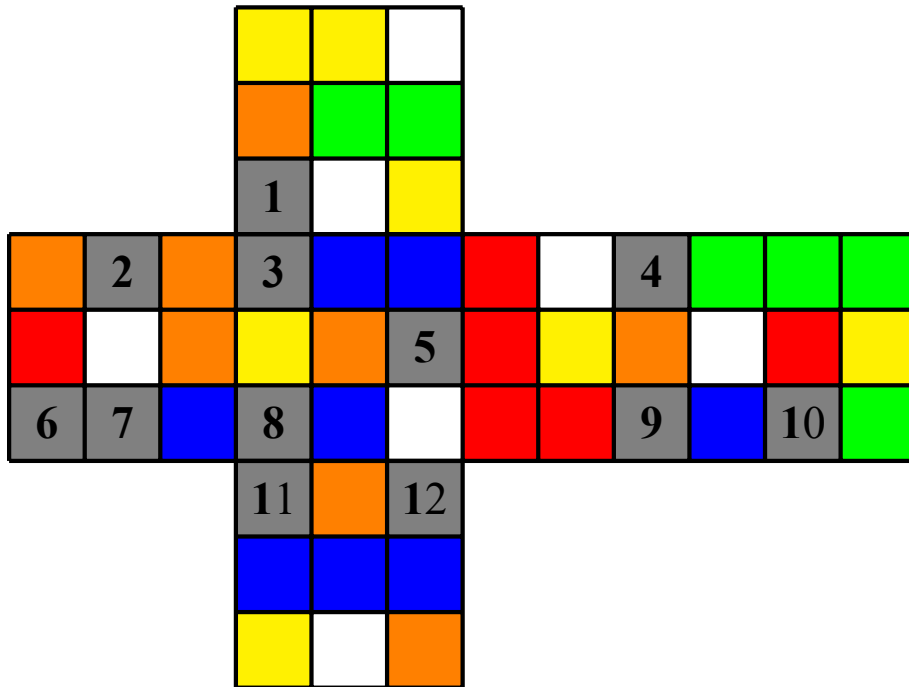


**Solution 38: B' R2 U D' B2 D' U' L2 U R U R2 B2 L' F2 U' R' L B2 F Fw' Uw**

[illegible]

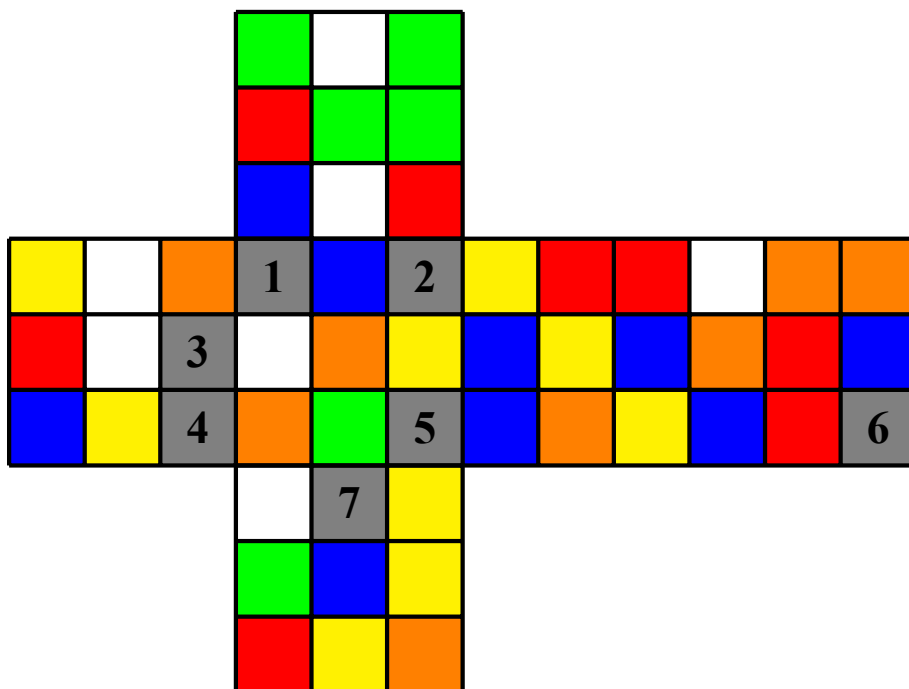
21

**No. 41      Difficulty:★★**



**Solution 41: D' L R2 B L' D U2 R U' L R' F' L' U' L F U' B F' R2 Fw' Uw2**

**No. 42      Difficulty:★★**



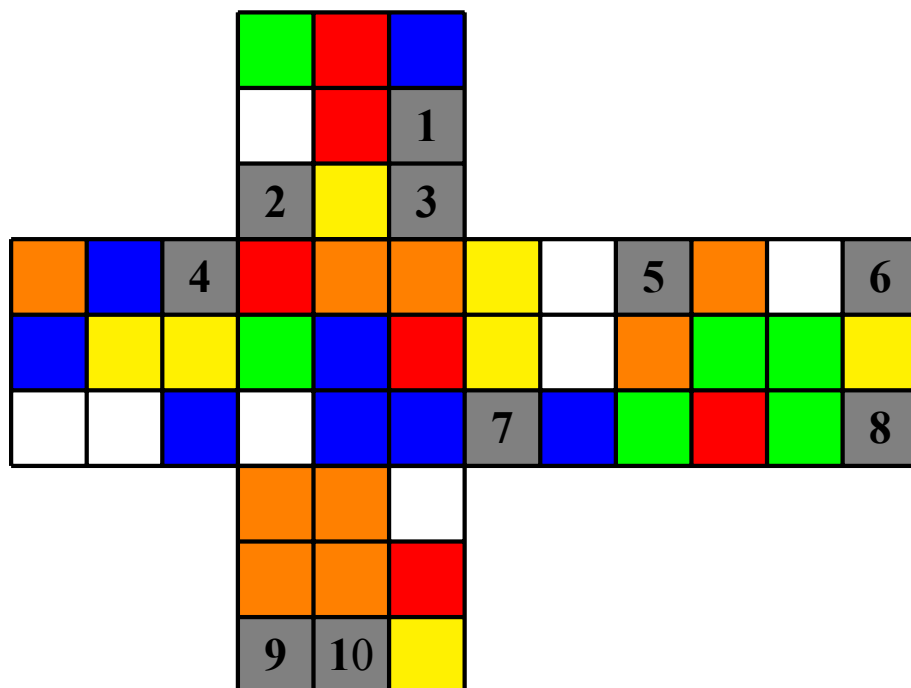
**Solution 42: B' L2 B' U2 F2 L' U B2 R2 D B' R' L2 D2 F' R2 D2 F R2 U2 Fw' Uw2**

The image shows a 15x15 grid with a cross-shaped pattern of colored squares. The grid is composed of 225 squares in total. The cross shape is formed by 25 squares, with 11 squares in the top row, 11 squares in the bottom row, 11 squares in the leftmost column, and 11 squares in the rightmost column. The squares are colored in a repeating pattern of orange, green, and yellow in the top row; green, red, and blue in the second row; gray with a number, blue, and blue in the third row; and yellow, green, and orange in the fourth row. The numbers 1 through 11 are placed in gray squares at specific intersections: 1 is at (3,4), 2 is at (4,1), 3 is at (4,4), 4 is at (4,7), 5 is at (4,10), 6 is at (4,13), 7 is at (5,3), 8 is at (5,7), 9 is at (6,1), 10 is at (6,2), and 11 is at (6,4). The grid is symmetric about the center square (7,7).

23

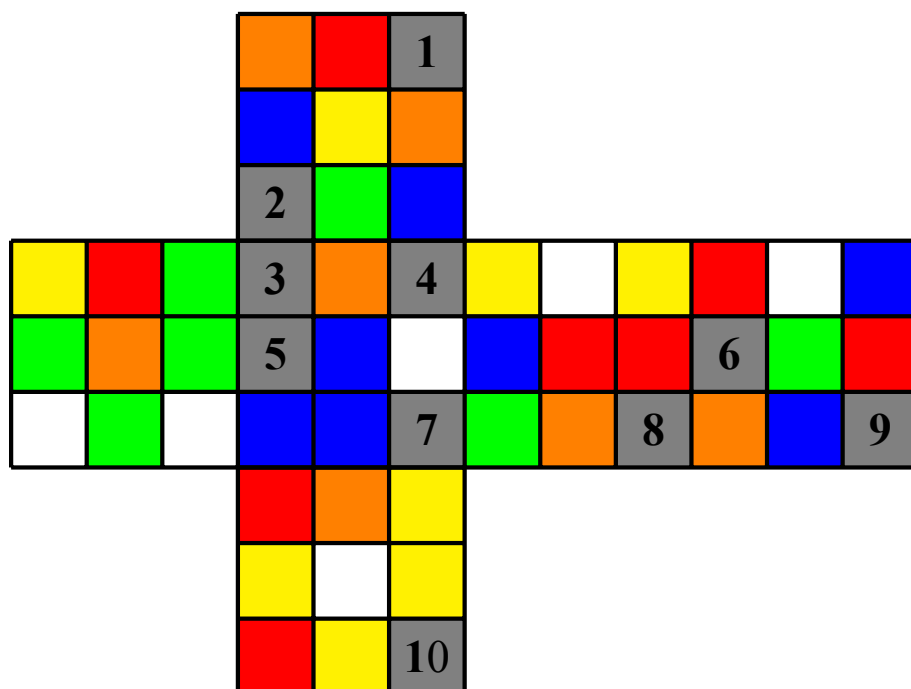


**No. 45      Difficulty:★★**



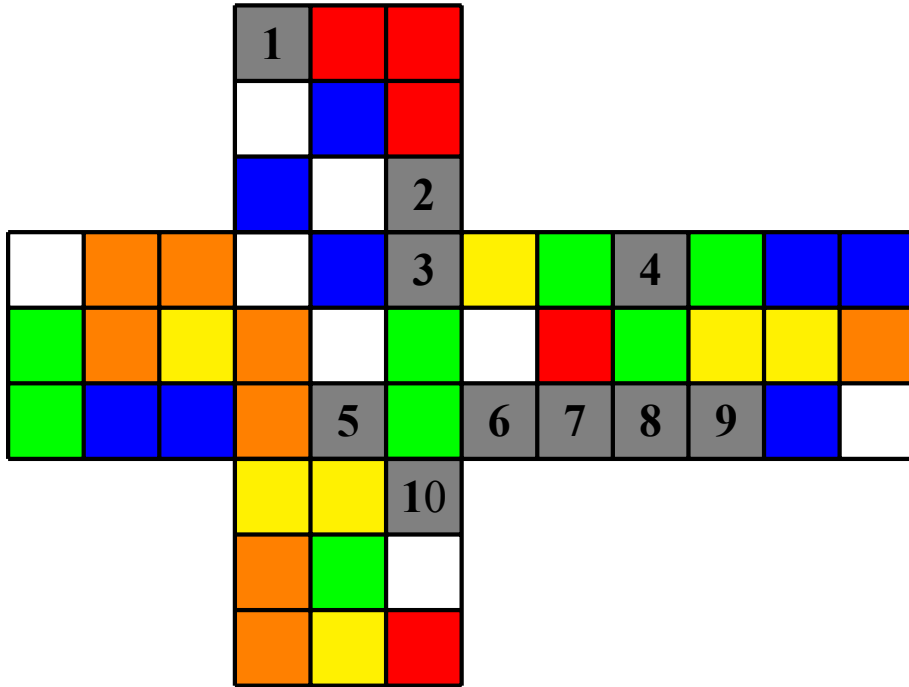
**Solution 45: D2 R2 F2 R2 F' U' L F2 B2 L R2 F D B2 R L F2 D2 R2 F' Rw Uw'**

**No. 46      Difficulty:★★**



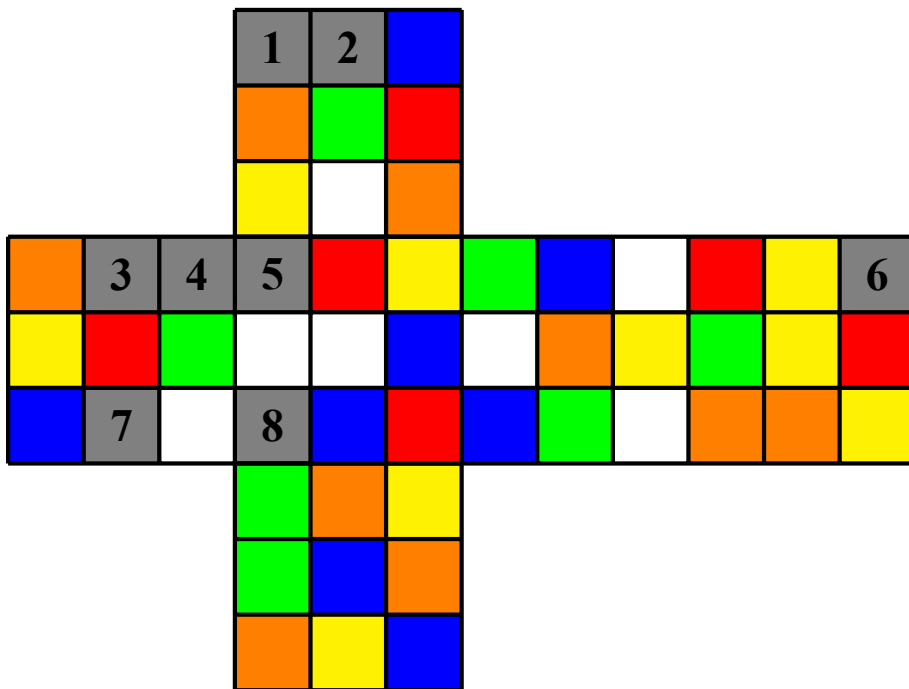
**Solution 46: U R F U' B2 D2 L F2 R2 U F' L B2 F R2 U' R F' L' D' Uw'**

**No. 47      Difficulty:★★**



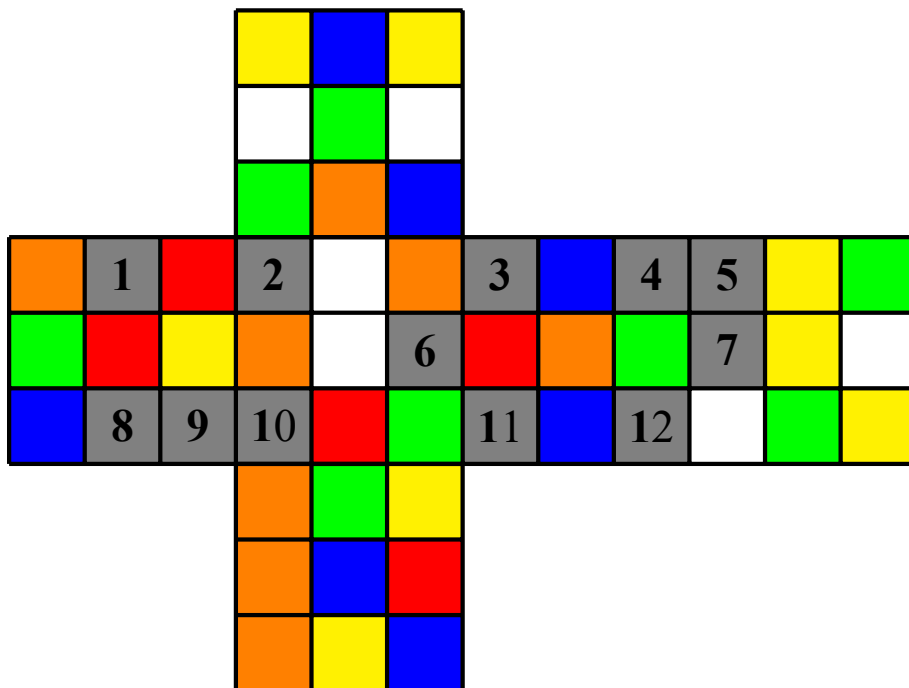
**Solution 47:** L2 D2 L2 B' F D F' L B D2 U2 R2 B' U R2 B' R2 F' R2 L' Fw Uw'

**No. 48      Difficulty:★★**



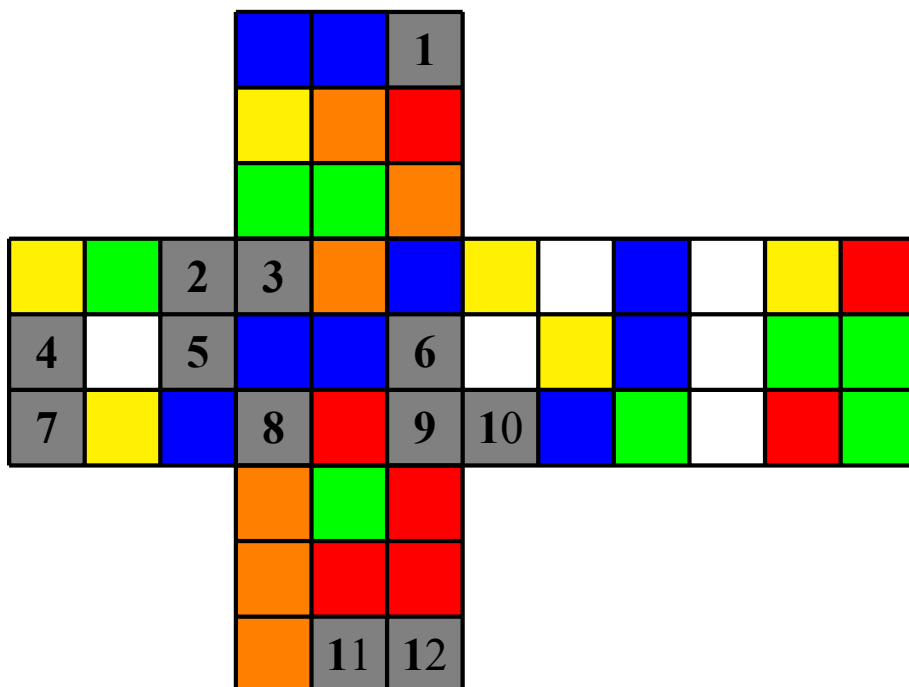
**Solution 48:** L B2 R B' F' U L2 R' F R F U2 L' F2 B2 L2 B F U' R' Fw' Uw

**No. 49      Difficulty:★★**



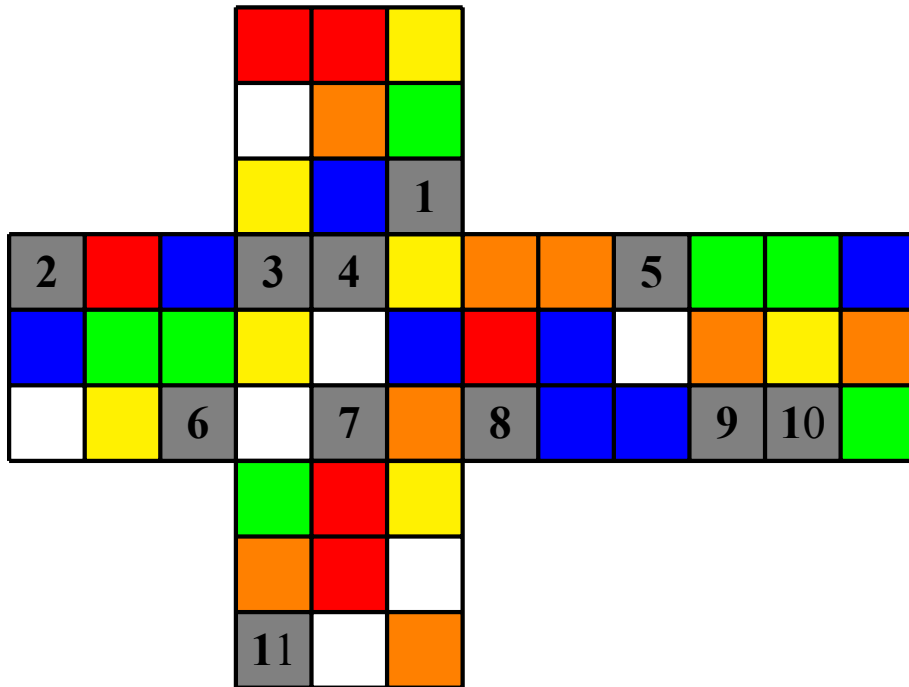
**Solution 49: F R2 L2 U B' U F U' B' L R' U D' R2 B2 D' U' R' D L Fw' Uw**

**No. 50      Difficulty:★★**



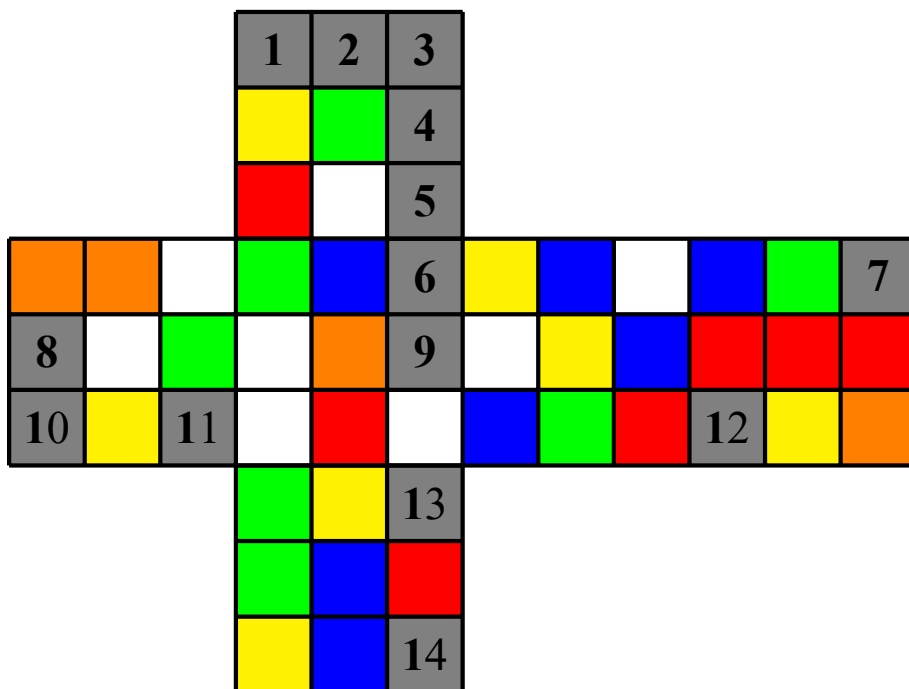
**Solution 50: U D L F B2 R2 B2 L' D2 L B' L D F2 D' B2 R2 D U' B2 Rw' Uw'**

**No. 51      Difficulty:★★★**



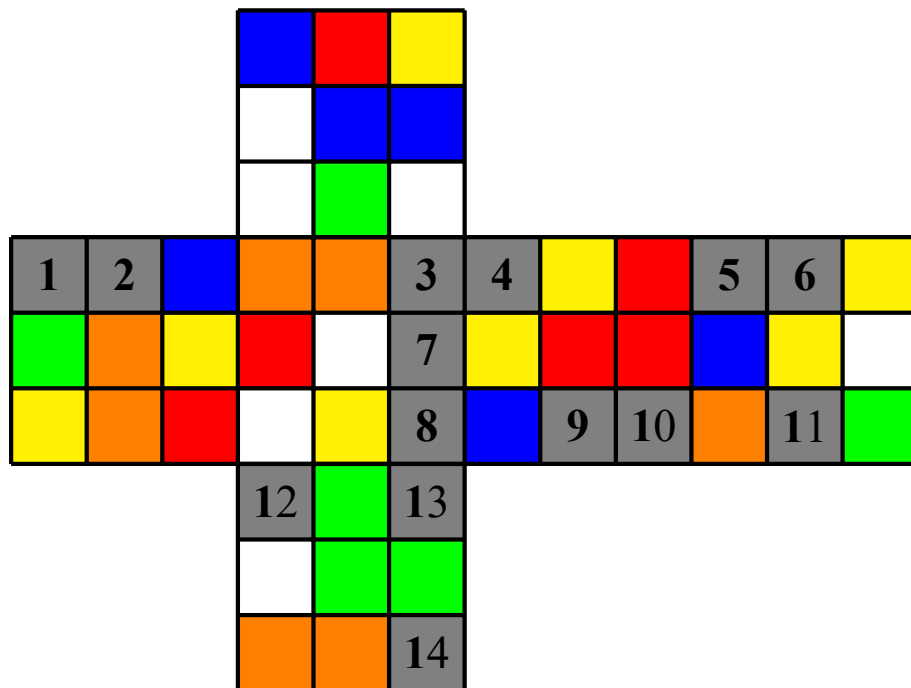
**Solution 51: R' D2 F' D F2 L F' B L' F2 L U L' U2 B U' D2 L D2 F2 Rw' Uw2**

**No. 52      Difficulty:★★★**



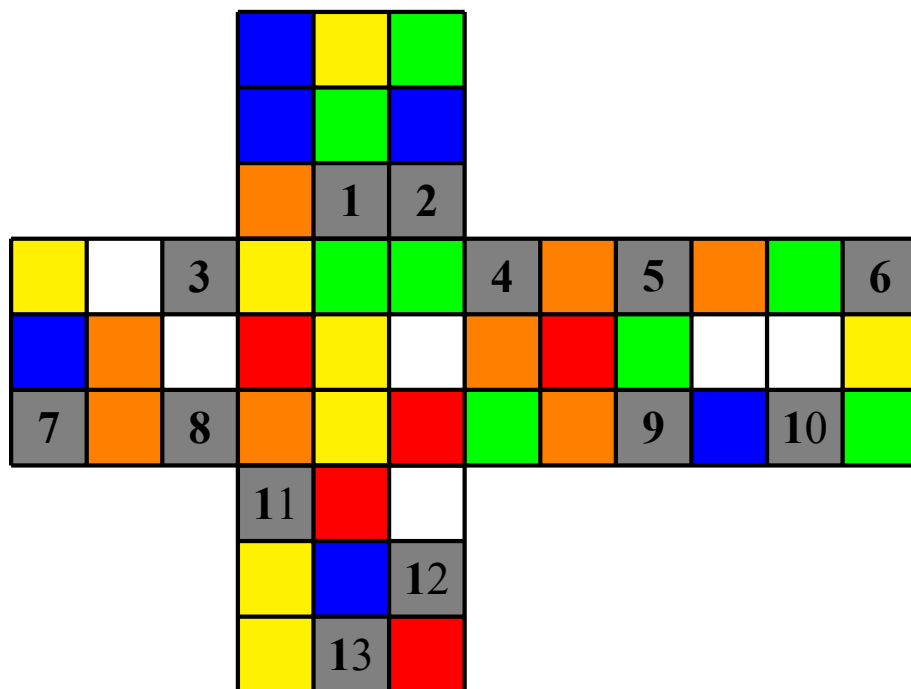
**Solution 52: D2 R' L' B2 L' U2 D' R' U' B' L R2 F U D' L U R B R' Fw' Uw2**

**No. 53**      **Difficulty:★★★**



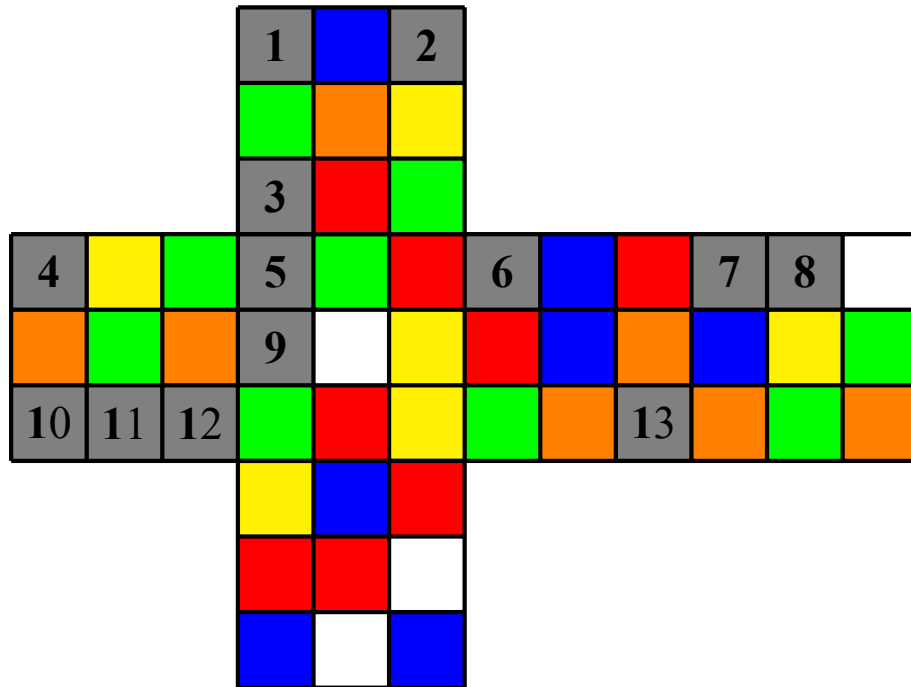
**Solution 53:** F' L2 F L R2 U R' U' D2 B' U' B' D2 B F2 D2 R B' U' F' Fw Uw'

**No. 54**      **Difficulty:★★★**



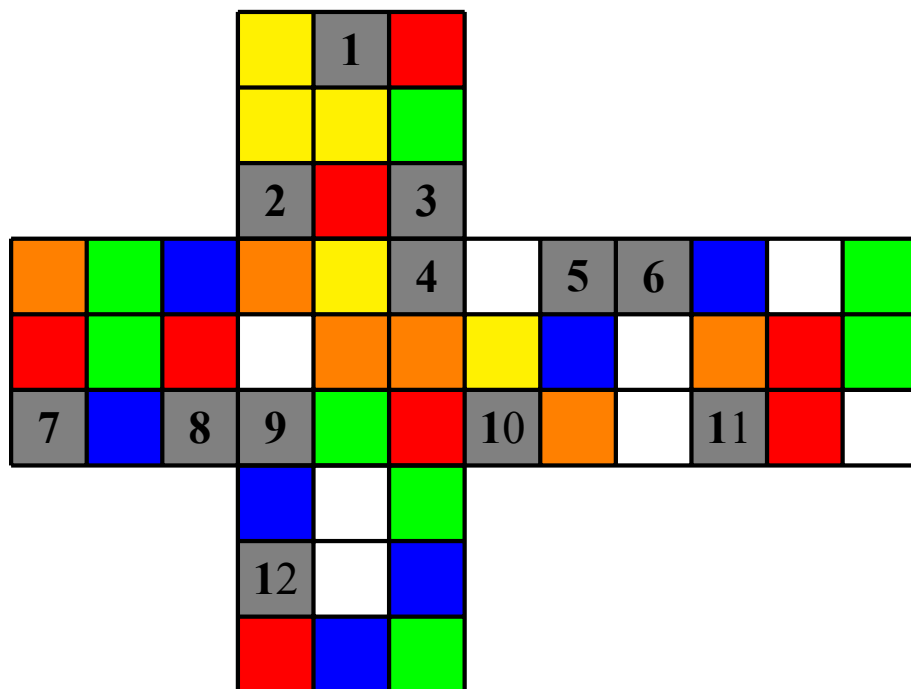
**Solution 54:** D2 F' U2 F' B' R D2 U' R' L D U' R B' L D F' D2 U L2 Fw' Uw'

**No. 55      Difficulty:★★★**



**Solution 55: D' B F R' F' D' B' U' L' R2 B2 F R2 B R B2 F2 R2 B2 U' Rw' Uw2**

**No. 56      Difficulty:★★★**



**Solution 56: R' U F R2 D2 U2 R B' U2 B' D' F B' R' U' R F D U F Uw2**

30

[illegible]

The grid is 15 columns wide and 15 rows high. A cross shape is highlighted with thick black borders. The cross consists of the 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, and 15th rows, and the 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, and 15th columns. The intersection of the cross is the 8th row and 8th column.

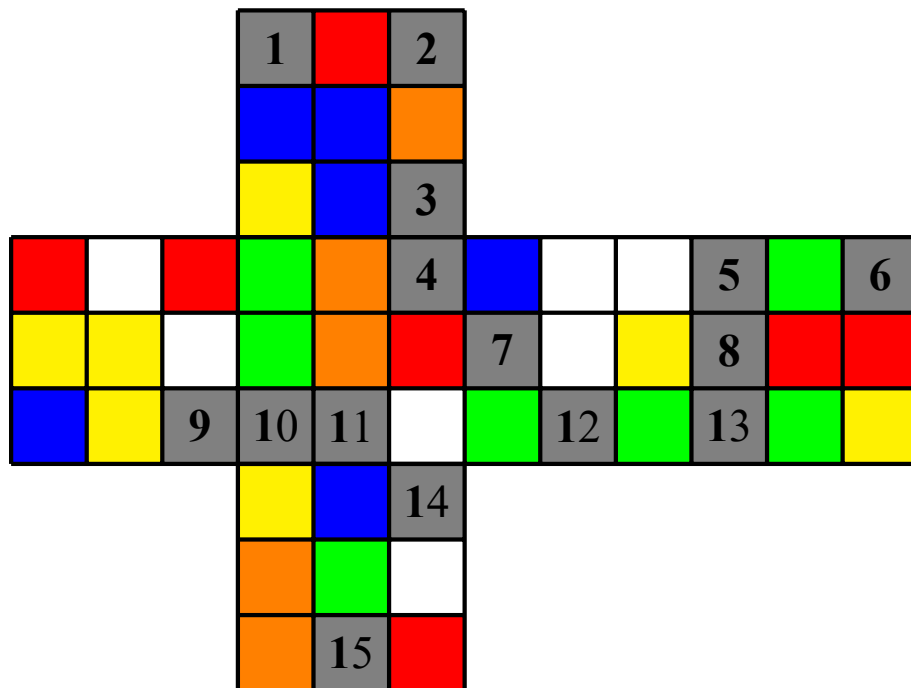
The grid contains the following numbers and colors:

- Row 1: Column 4 (1, grey), Column 5 (blue), Column 6 (green)
- Row 2: Column 4 (orange), Column 5 (blue), Column 6 (orange)
- Row 3: Column 4 (2, grey), Column 5 (orange), Column 6 (3, grey)
- Row 4: Column 1 (orange), Column 2 (blue), Column 3 (green), Column 4 (yellow), Column 5 (green), Column 6 (4, grey), Column 7 (red), Column 8 (5, grey), Column 9 (6, grey), Column 10 (7, grey), Column 11 (8, grey), Column 12 (yellow), Column 13 (10, grey)
- Row 5: Column 1 (yellow), Column 2 (orange), Column 3 (9, grey), Column 4 (red), Column 5 (white), Column 6 (blue), Column 7 (red), Column 8 (red), Column 9 (green), Column 10 (yellow), Column 11 (yellow), Column 12 (white)
- Row 6: Column 1 (red), Column 2 (11, grey), Column 3 (red), Column 4 (12, grey), Column 5 (orange), Column 6 (green), Column 7 (13, grey), Column 8 (green), Column 9 (blue), Column 10 (white), Column 11 (red), Column 12 (white)
- Row 7: Column 4 (yellow), Column 5 (yellow), Column 6 (orange)
- Row 8: Column 4 (green), Column 5 (green), Column 6 (red)
- Row 9: Column 4 (green), Column 5 (yellow), Column 6 (orange)

31

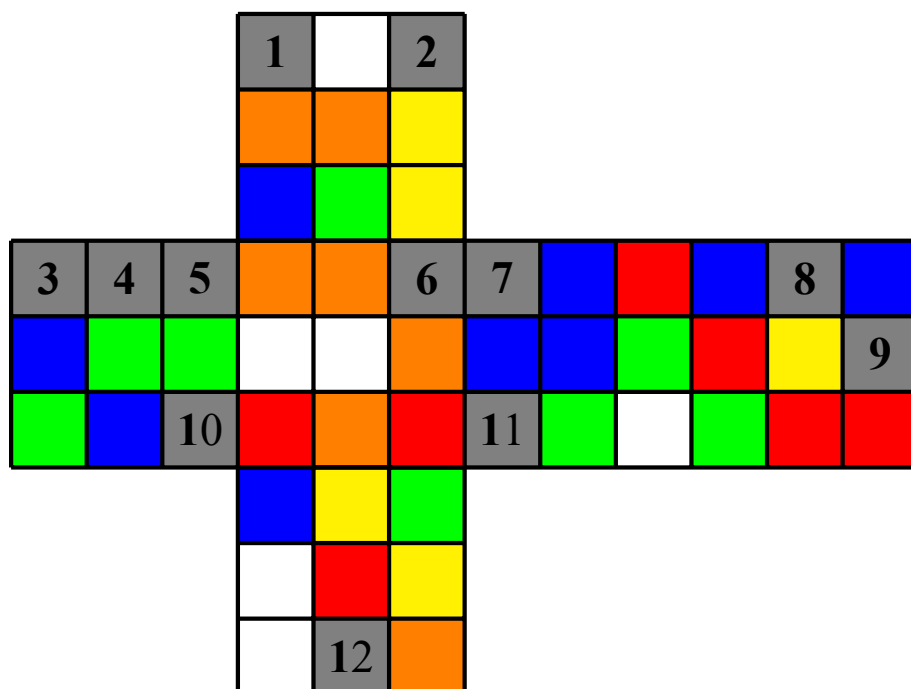


**No. 61      Difficulty:★★★**



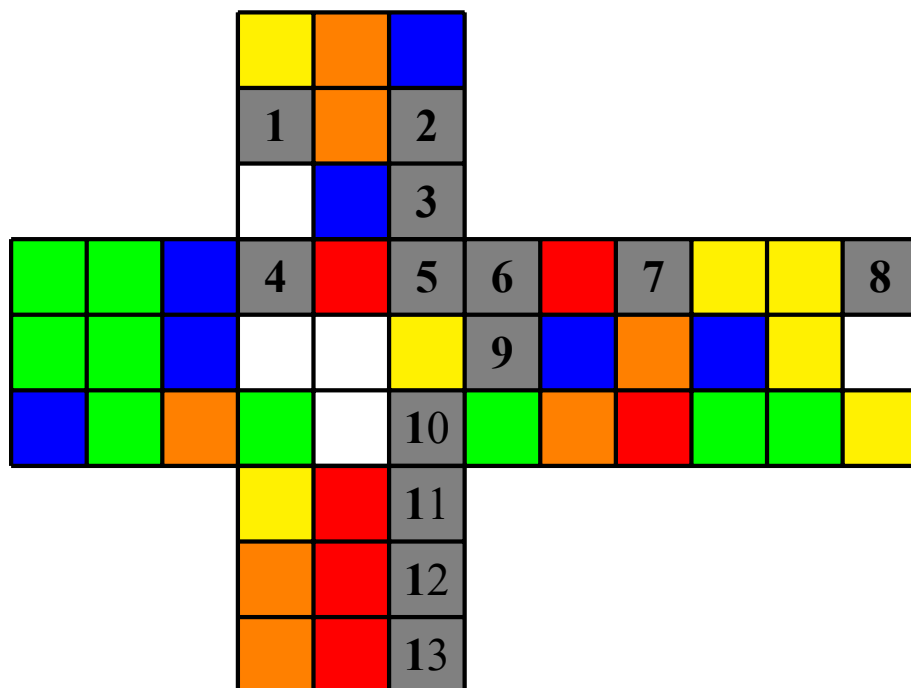
**Solution 61: L' D F' R U' R U' F' L2 U' R2 B2 L' D B' L' U D' L2 F2 Fw Uw2**

**No. 62      Difficulty:★★★**



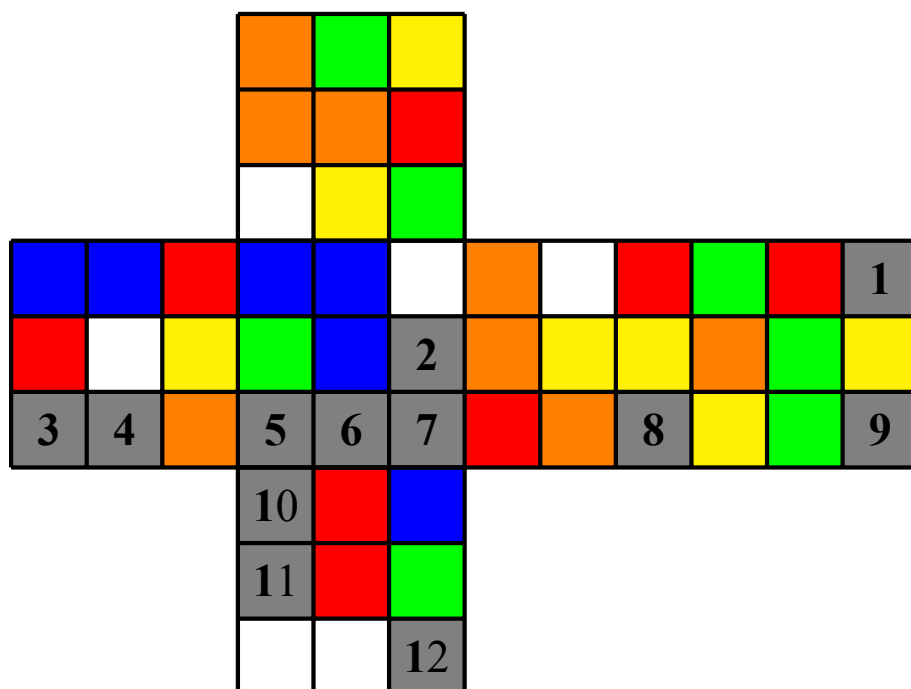
**Solution 62: B' R2 B2 D' U' F' U L D F' U L F2 B2 D B2 R L' B' R' Rw' Uw2**

**No. 63      Difficulty:★★★**



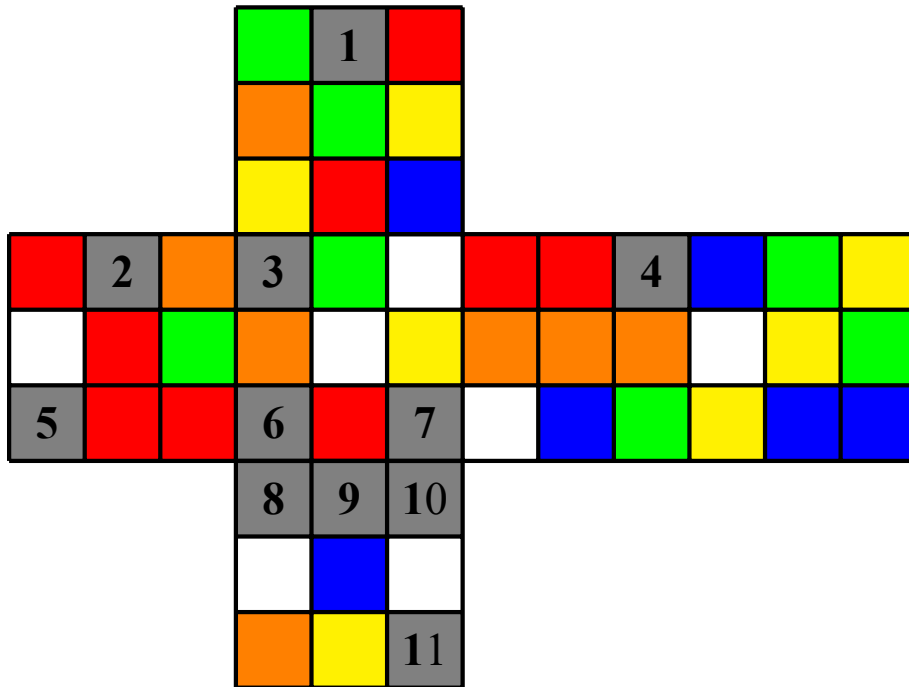
**Solution 63: B' U B F2 U2 F L U' F2 D' B2 F2 R2 B2 D R D2 R2 U' B' Rw' Uw2**

**No. 64      Difficulty:★★★**



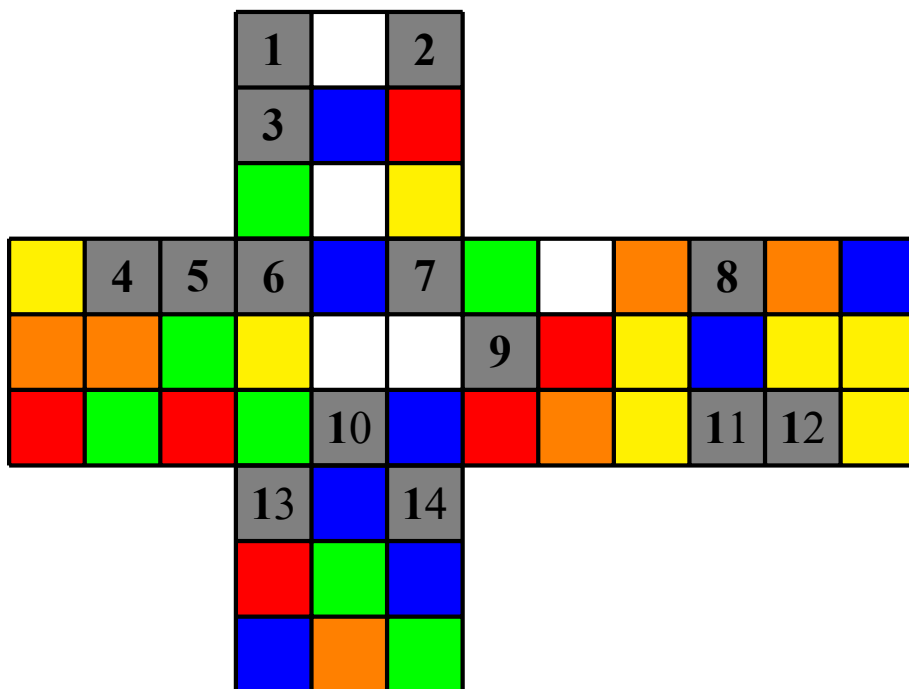
**Solution 64: R B R2 D' R F L2 B' R2 D2 U2 L R2 D F' L2 U2 B' R B' Rw' Uw'**

**No. 65      Difficulty:★★★**



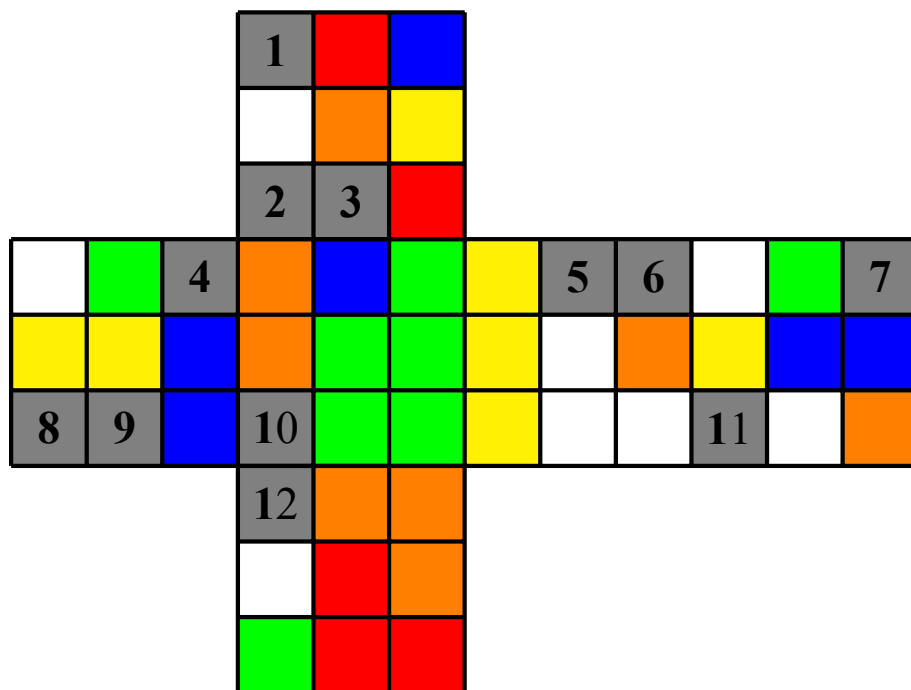
**Solution 65: L2 F' D R' B2 D U F2 D' B D F' D' B U2 D2 L F L R2 Fw' Uw**

**No. 66      Difficulty:★★★**



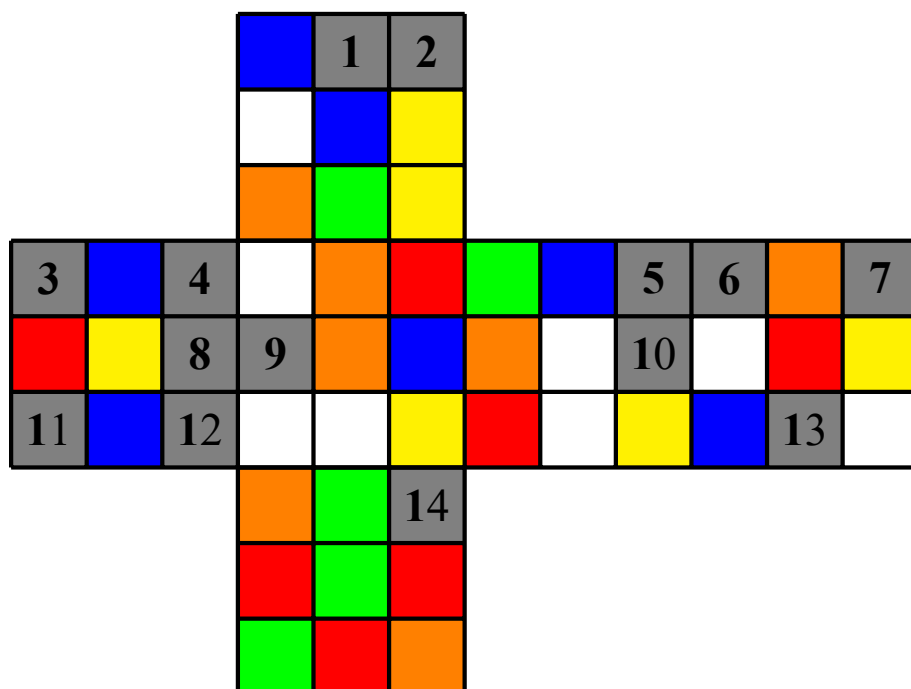
**Solution 66: D B2 R' F2 B2 D2 U L' D B R2 B' D U R F' B D F' U2 Fw Uw'**

**No. 67      Difficulty:★★★**



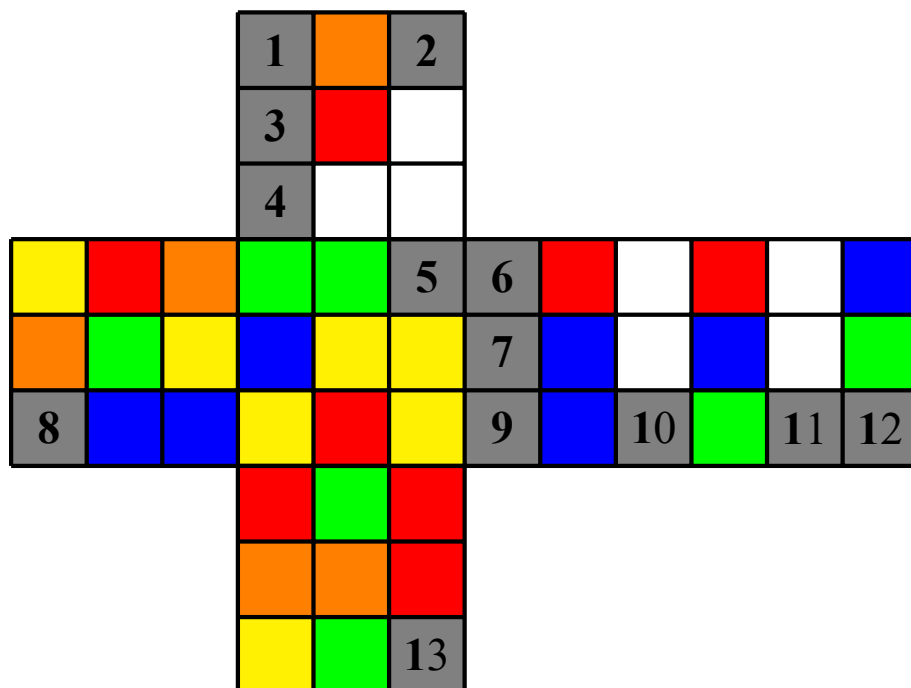
**Solution 67: L2 D2 L' F' B2 U' R U2 B U2 L2 D' L' B2 U L' U L D' F2 Rw' Uw**

**No. 68      Difficulty:★★★**



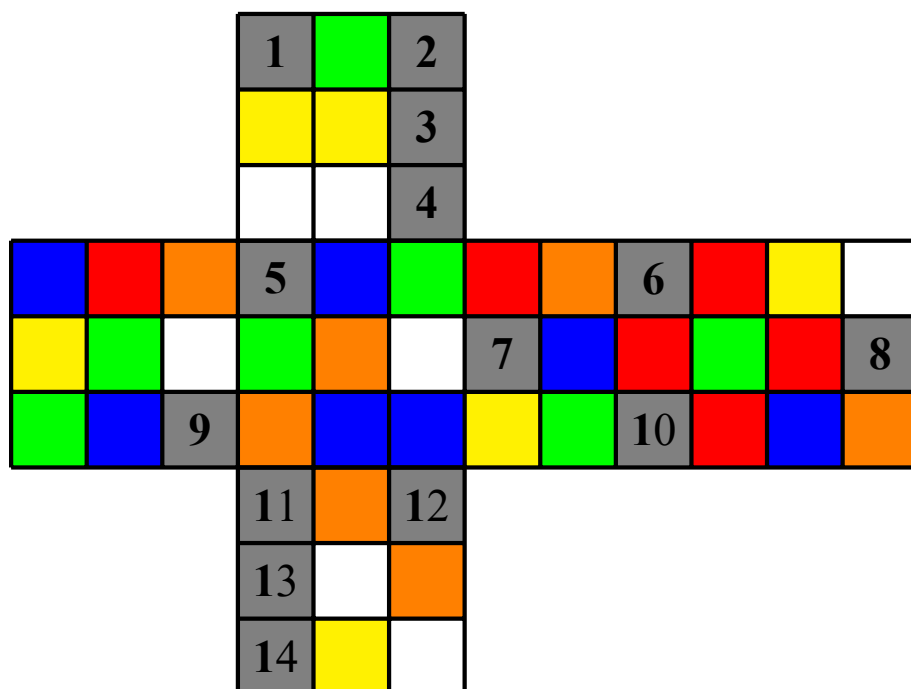
**Solution 68: D' U2 F' L' B' F' L' R' B R2 F' L2 U' B' R2 L2 U D R' B2 Fw Uw2**

**No. 69      Difficulty:★★★**



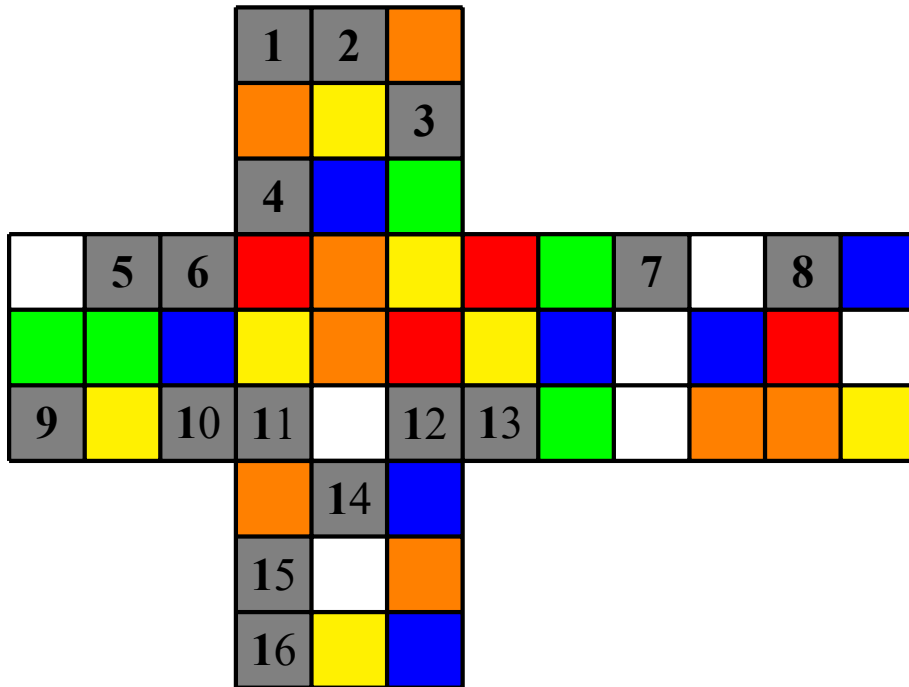
**Solution 69: R' U2 L' F2 U' D' L B2 U R2 B' D L2 U' F2 L2 D U2 R F2 Rw Uw2**

**No. 70      Difficulty:★★★**



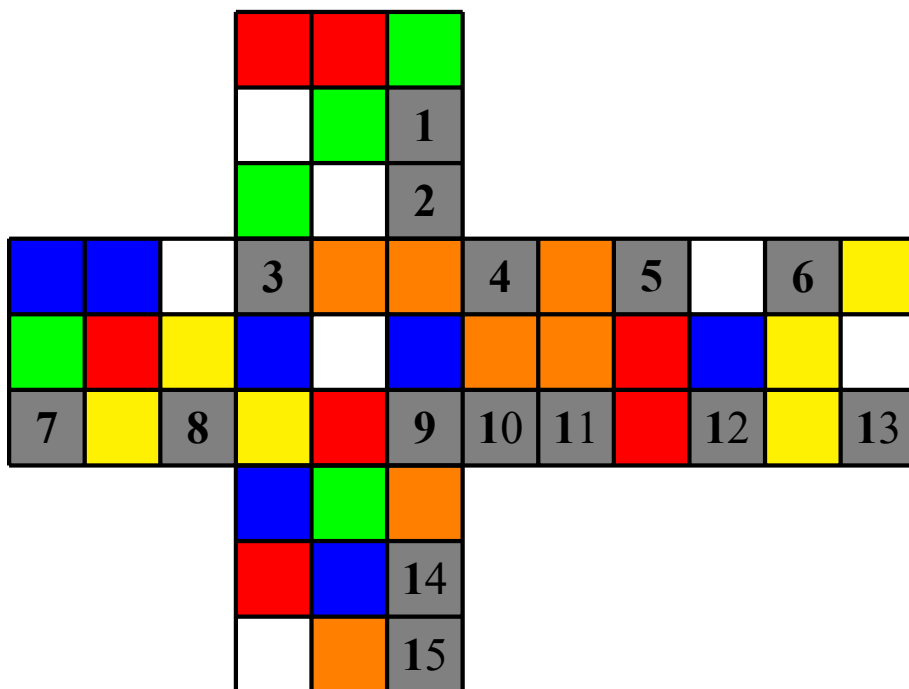
**Solution 70: R F L2 D' F2 D2 U B F' L2 U' D' F' R' U2 D' F L2 B2 U Uw2**

**No. 71      Difficulty:★★★★**



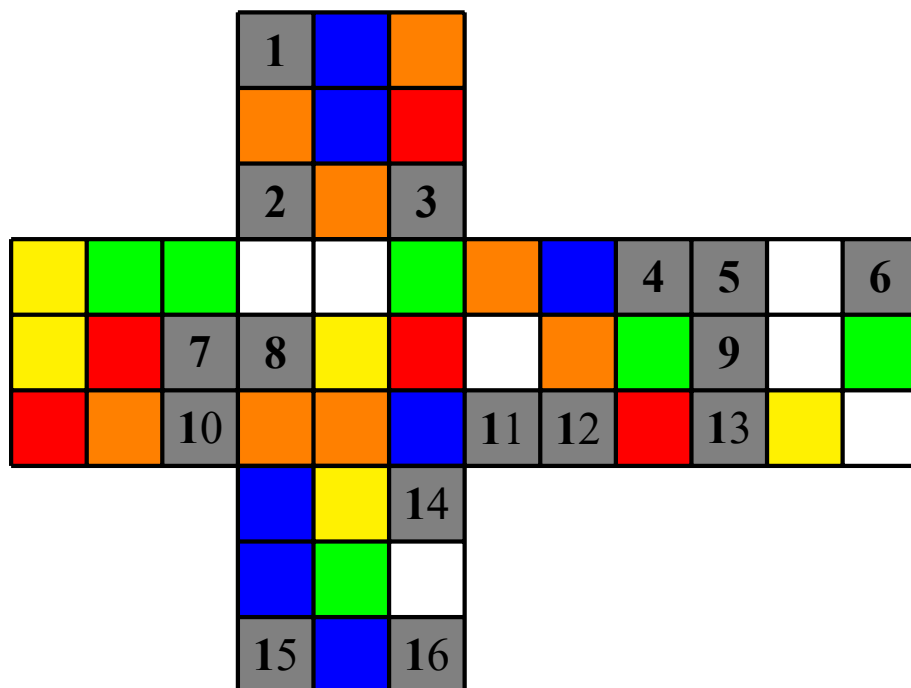
**Solution 71: L2 R' B F U B2 D' B' F2 L' F2 L B' R2 D' U L2 R F' D2 Uw2**

**No. 72      Difficulty:★★★★**



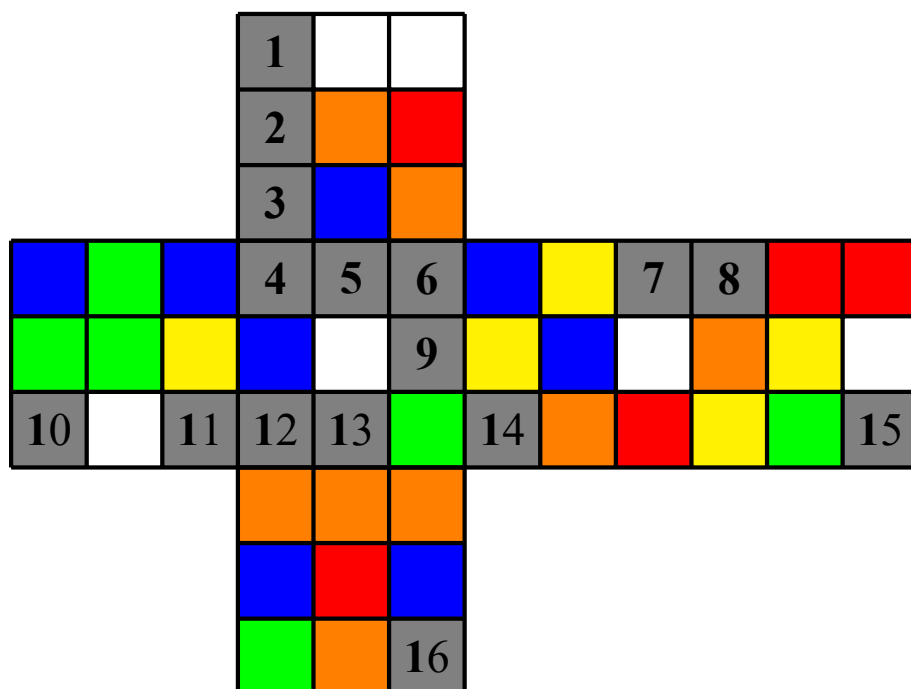
**Solution 72: R2 D' B2 D2 L F' B L2 D R U2 D R D U B' F2 U B' U2 Fw' Uw**

**No. 73**      **Difficulty:★★★★**



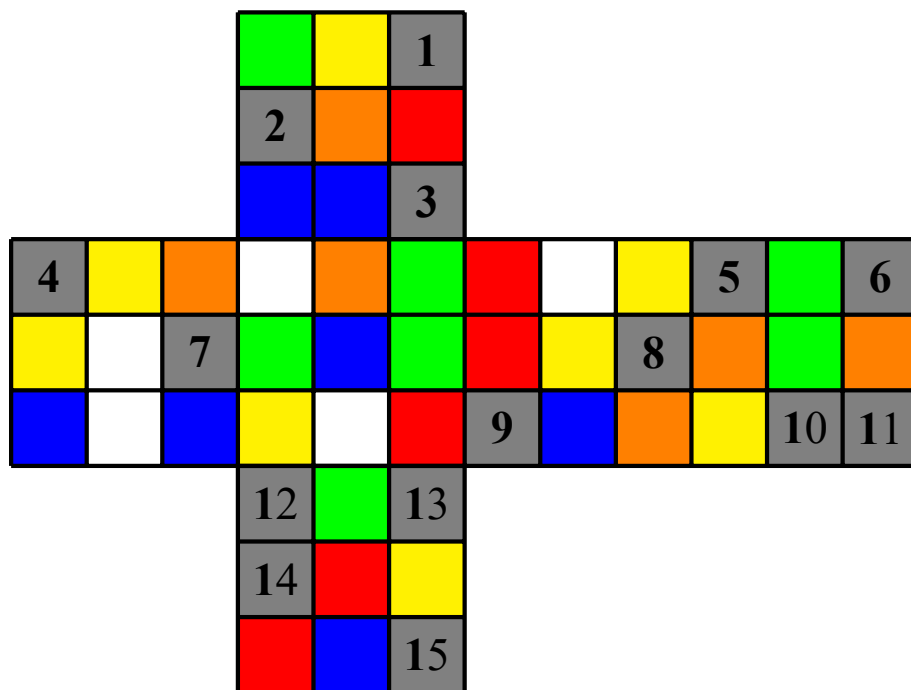
**Solution 73: R2 L2 B' F' R2 D2 B U2 D B' R' D F2 D' L U B F' R B Fw Uw**

**No. 74**      **Difficulty:★★★★**



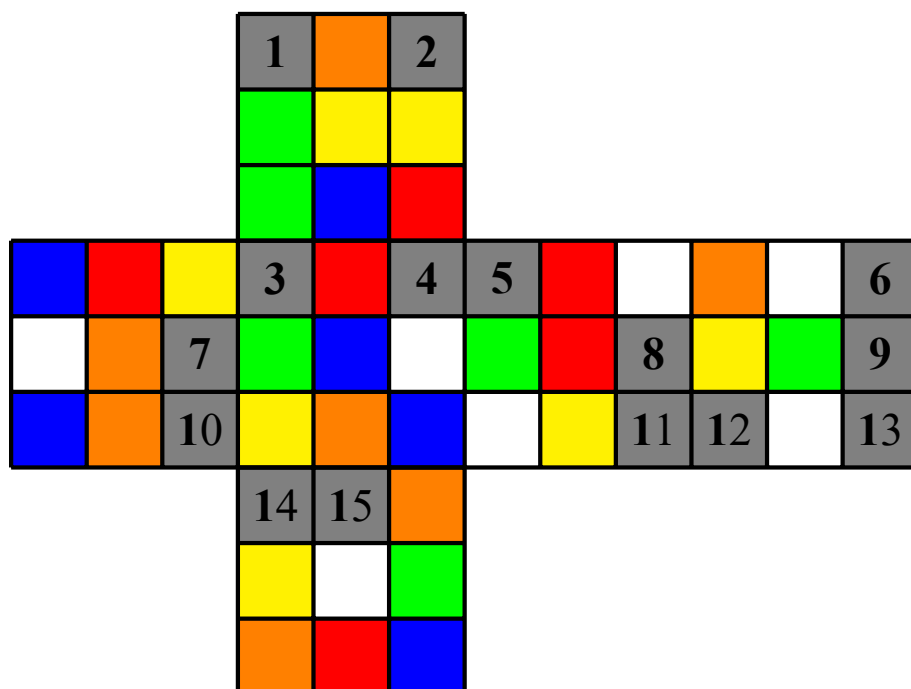
**Solution 74: B L2 D F2 R F D2 L2 B2 D R U2 D2 B L D U2 L R D2 Rw' Uw2**

**No. 75**      **Difficulty:★★★★**



**Solution 75:** R2 F' D' R2 U2 F2 B2 R' U' R D' L' F2 B L D2 R D' R2 B' Rw' Uw'

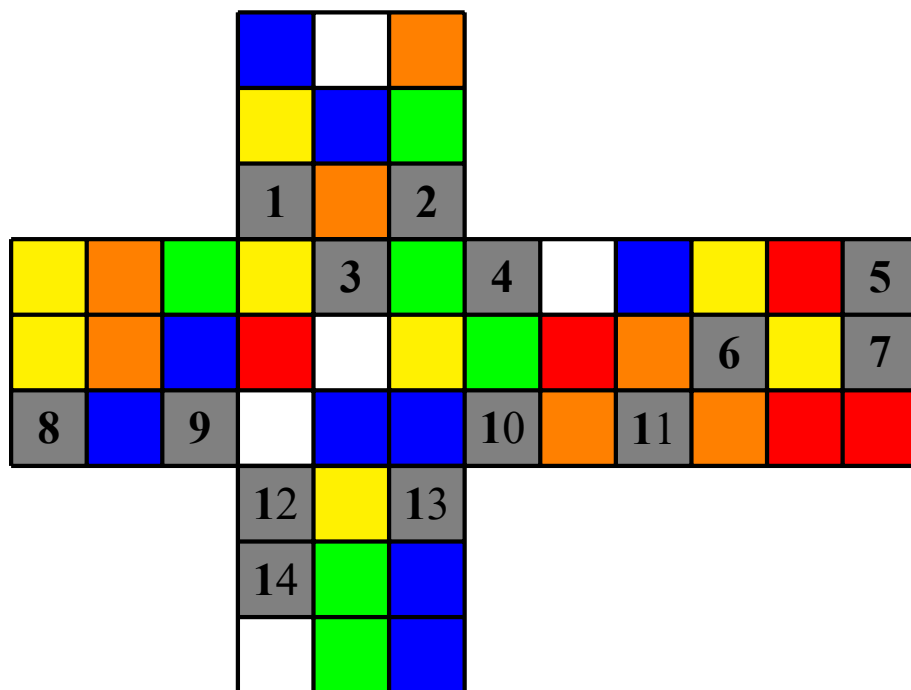
**No. 76**      **Difficulty:★★★★**



**Solution 76:** B2 D' R' B2 F2 U' L' F' U B2 F L2 B L2 F B' R' F B R Uw'

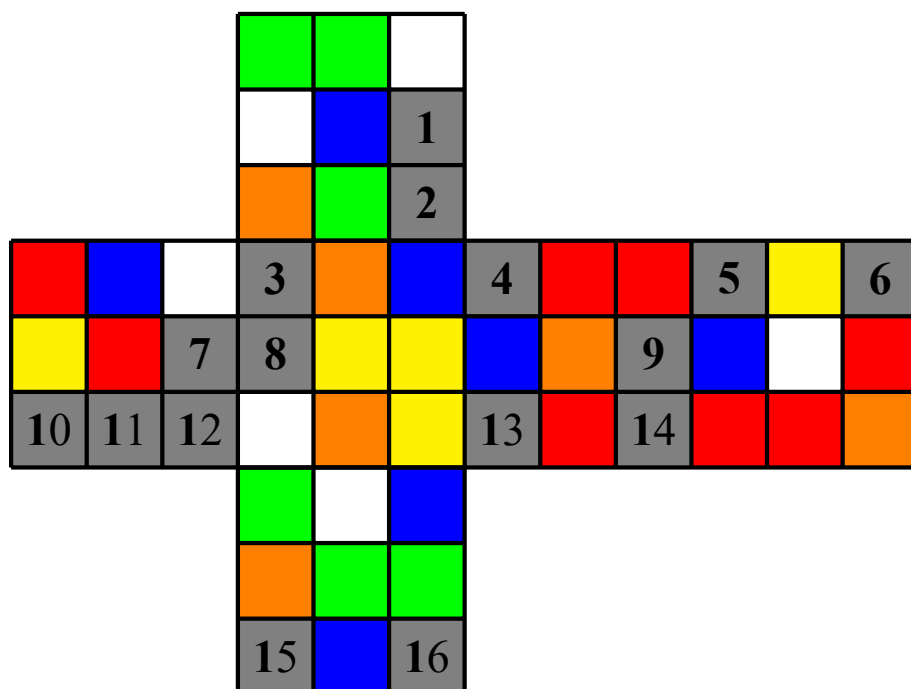


**No. 77**      **Difficulty:★★★★**



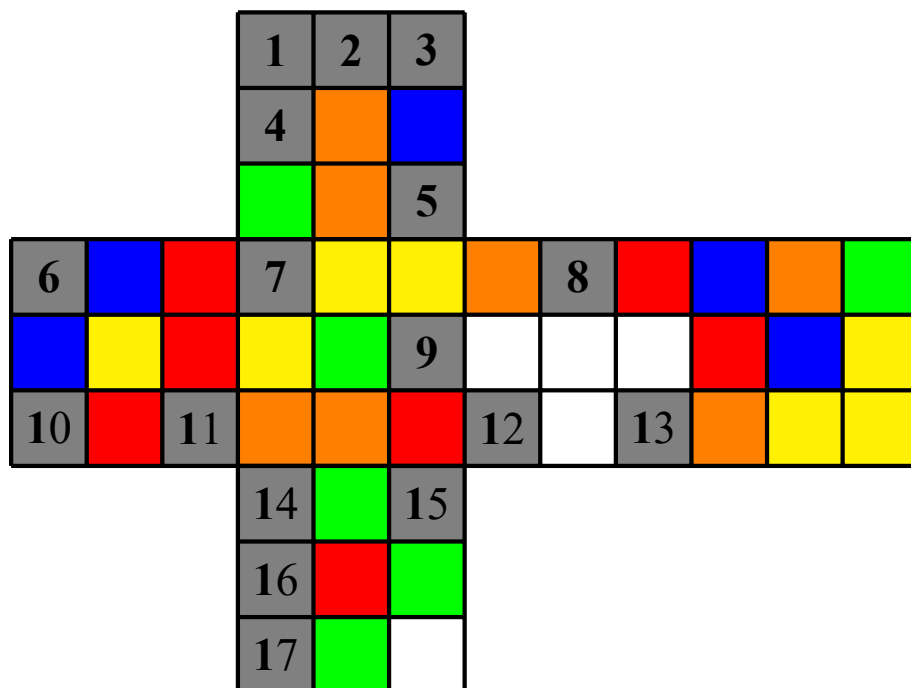
**Solution 77: D2 B2 F2 R2 L' D' F B' R' L F R B L' B' D U2 B2 F' L Fw Uw'**

**No. 78**      **Difficulty:★★★★**



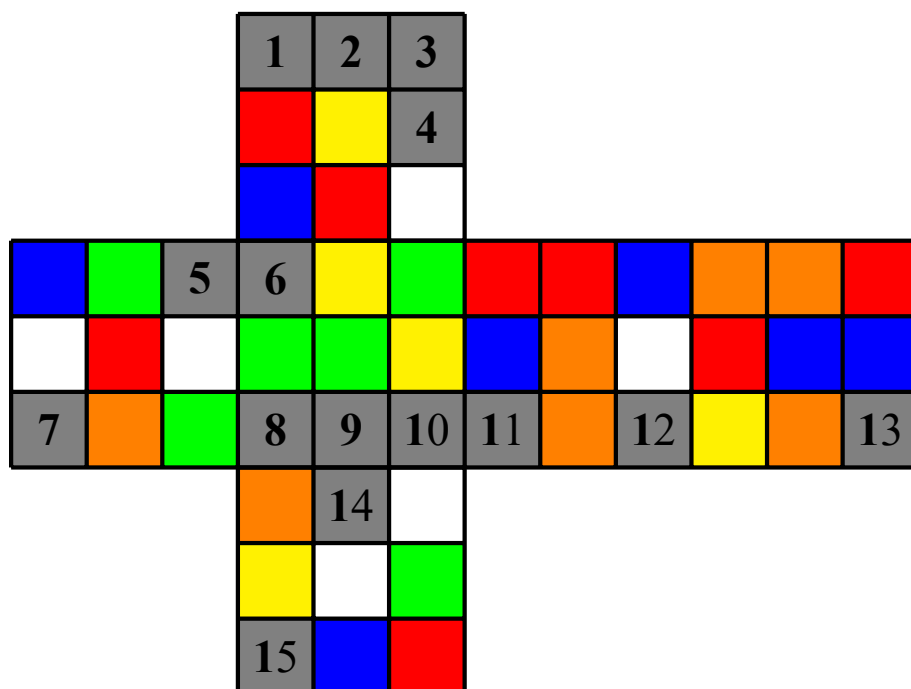
**Solution 78: D R2 U2 D L2 F2 U' D2 B2 D L2 U L F D2 B2 F' R2 F B Fw Uw**

**No. 79      Difficulty:★★★★**



**Solution 79: L2 F' B' D' R' F' L' B F' U2 D' R U2 D2 F U2 B L' B2 D Rw' Uw**

**No. 80      Difficulty:★★★★**



**Solution 80: D2 U2 R U2 F2 B U F2 L' B' D B2 L' B' F L' R F' L2 F2 Uw**

The crossword puzzle grid is 16 cells wide and 10 cells high. The grid is composed of white cells for letters and black cells for empty space. The numbered starting points are as follows:

- 1: Row 1, Column 4 (Gray)
- 2: Row 1, Column 5 (Gray)
- 3: Row 2, Column 4 (Gray)
- 4: Row 3, Column 4 (Gray)
- 5: Row 3, Column 6 (Gray)
- 6: Row 4, Column 3 (Gray)
- 7: Row 4, Column 4 (Gray)
- 8: Row 4, Column 8 (Gray)
- 9: Row 4, Column 9 (Gray)
- 10: Row 4, Column 12 (Gray)
- 11: Row 5, Column 1 (Gray)
- 12: Row 5, Column 6 (Gray)
- 13: Row 6, Column 4 (Gray)
- 14: Row 6, Column 6 (Gray)
- 15: Row 7, Column 4 (Gray)
- 16: Row 7, Column 6 (Gray)

The pre-filled colored cells are as follows:

- Row 1: Column 6 (Red)
- Row 2: Column 5 (Green), Column 6 (Yellow)
- Row 3: Column 5 (Green), Column 6 (Yellow)
- Row 4: Column 1 (Red), Column 2 (White), Column 3 (White), Column 5 (Red), Column 7 (Orange), Column 8 (Green), Column 9 (Green), Column 10 (Blue), Column 11 (Yellow), Column 12 (Red), Column 13 (Red), Column 14 (Blue), Column 15 (Yellow)
- Row 5: Column 1 (Yellow), Column 2 (White), Column 3 (White), Column 4 (Green), Column 5 (Orange), Column 6 (Red), Column 7 (Blue), Column 8 (Yellow), Column 9 (Red), Column 10 (Red), Column 11 (Red), Column 12 (Red), Column 13 (Red), Column 14 (Red), Column 15 (Red), Column 16 (Red)
- Row 6: Column 1 (White), Column 2 (White), Column 3 (Blue), Column 4 (Red), Column 5 (Blue), Column 6 (Red), Column 7 (White), Column 8 (White), Column 9 (Yellow), Column 10 (Red), Column 11 (Orange), Column 12 (Green), Column 13 (Green), Column 14 (Green), Column 15 (Green), Column 16 (Green)
- Row 7: Column 4 (Orange), Column 5 (Blue), Column 6 (Red)
- Row 8: Column 4 (Green), Column 5 (Green), Column 6 (Green)

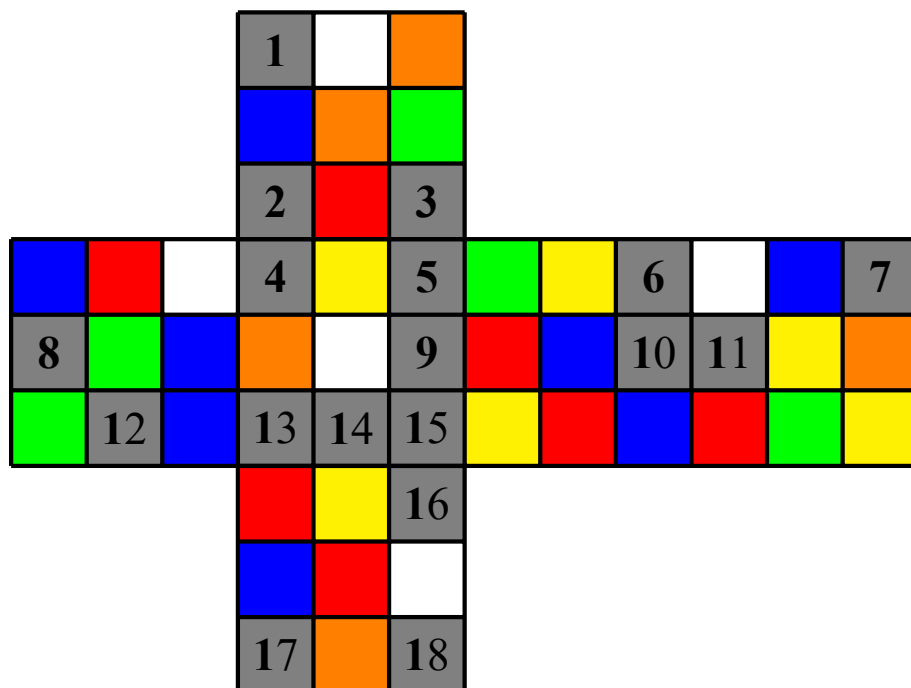
A crossword puzzle grid consisting of 16 numbered squares. The grid is shaped like a cross. The numbered squares are:

- 1: Top row, middle square (grey)
- 2: Top row, second square from middle (grey)
- 3: Top row, third square from middle (grey)
- 4: Middle row, first square (grey)
- 5: Middle row, fourth square from middle (grey)
- 6: Middle row, sixth square from middle (grey)
- 7: Middle row, seventh square from middle (grey)
- 8: Middle row, eighth square from middle (grey)
- 9: Middle row, ninth square from middle (grey)
- 10: Middle row, tenth square from middle (grey)
- 11: Middle row, eleventh square from middle (grey)
- 12: Middle row, twelfth square from middle (grey)
- 13: Middle row, thirteenth square from middle (grey)
- 14: Middle row, fourteenth square from middle (grey)
- 15: Bottom row, first square (grey)
- 16: Bottom row, second square (grey)

The grid is filled with various colors: yellow, blue, orange, red, green, and white. The numbered squares are grey.

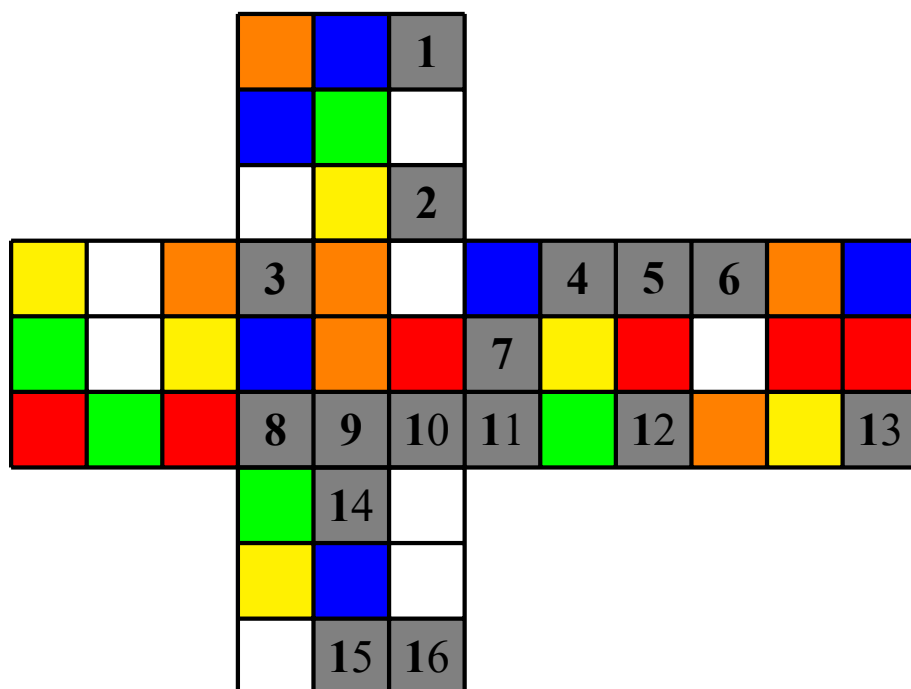
42

**No. 83      Difficulty:★★★★**



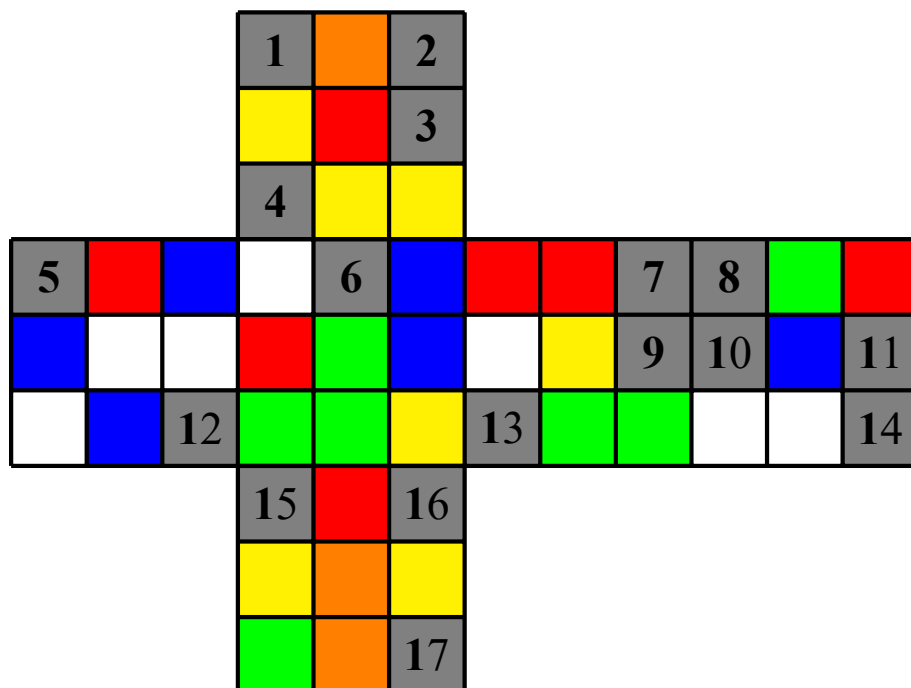
**Solution 83: F2 B L' U' B' R' B D B2 R' D2 B' L2 R B2 U2 B F R' D Rw' Uw2**

**No. 84      Difficulty:★★★★**



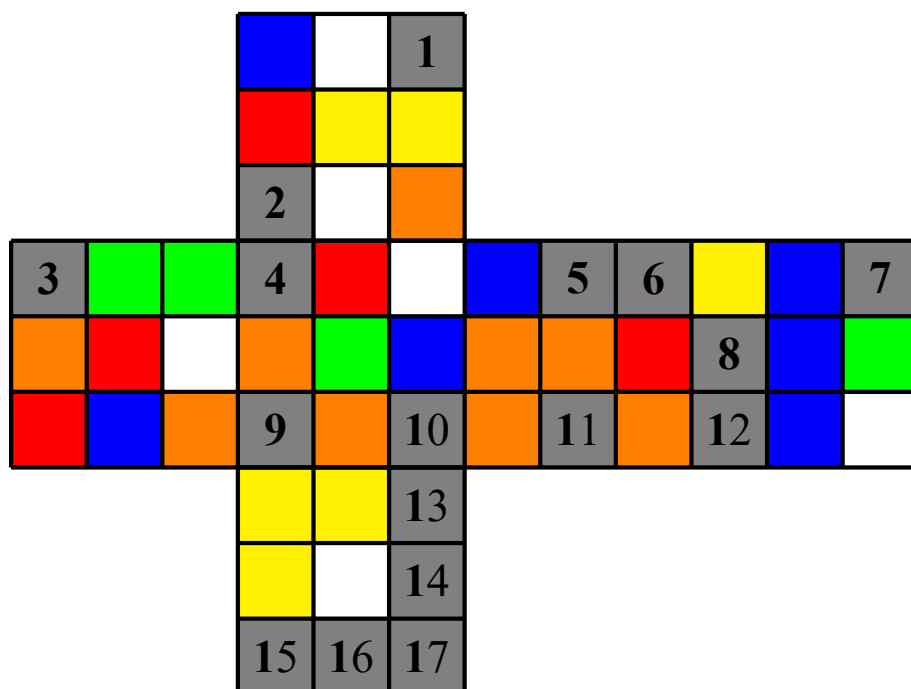
**Solution 84: F2 B L' U D2 R' B F' U2 R' L F2 R2 F B L2 D2 B' D' R' Fw' Uw2**

**No. 85**      **Difficulty:★★★★**



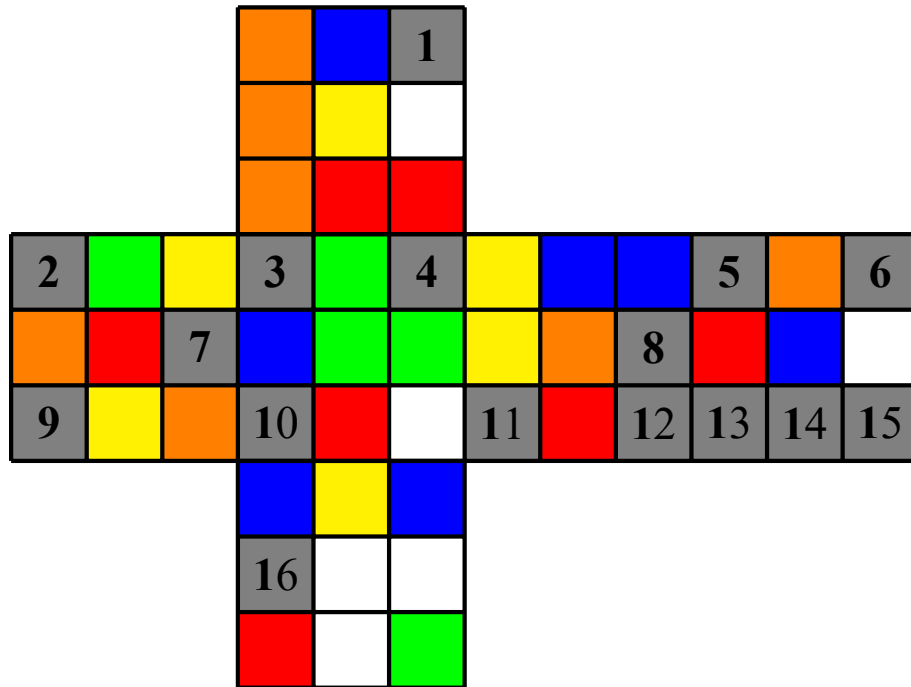
**Solution 85: B' L2 B F' L2 U2 L2 F U F2 L D' U' F' B R' B' R' B2 U2 Rw Uw**

**No. 86**      **Difficulty:★★★★**



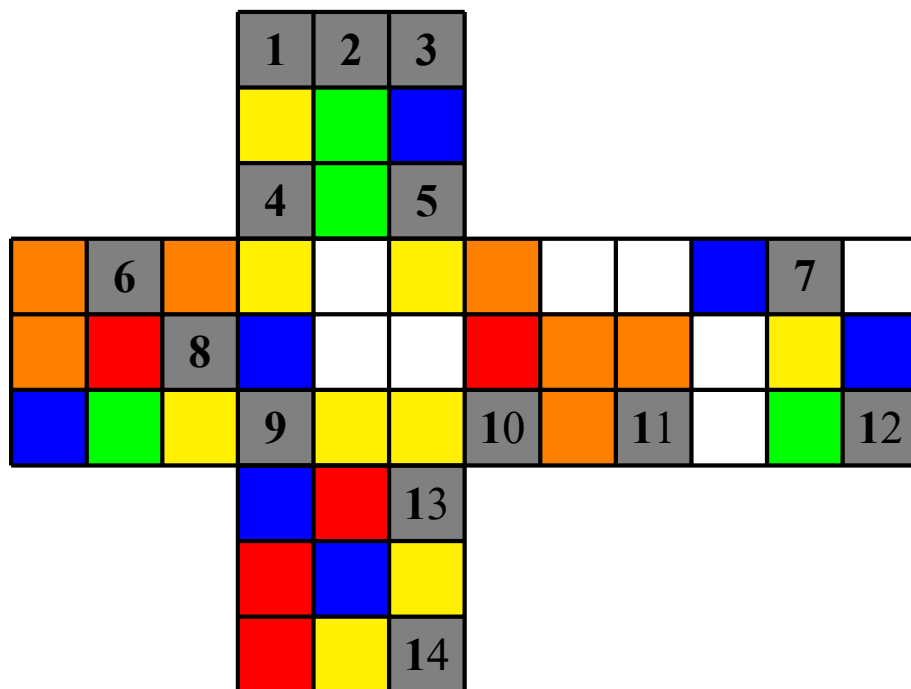
**Solution 86: L B' U' F R' U' B L' R' F' D U2 R' L' U' L2 B2 R2 B U Uw**

**No. 87**      **Difficulty:★★★★**



**Solution 87: R B' D2 R' F2 R' F2 L U' D R' D' R' F2 L B U' B' D' L' Uw**

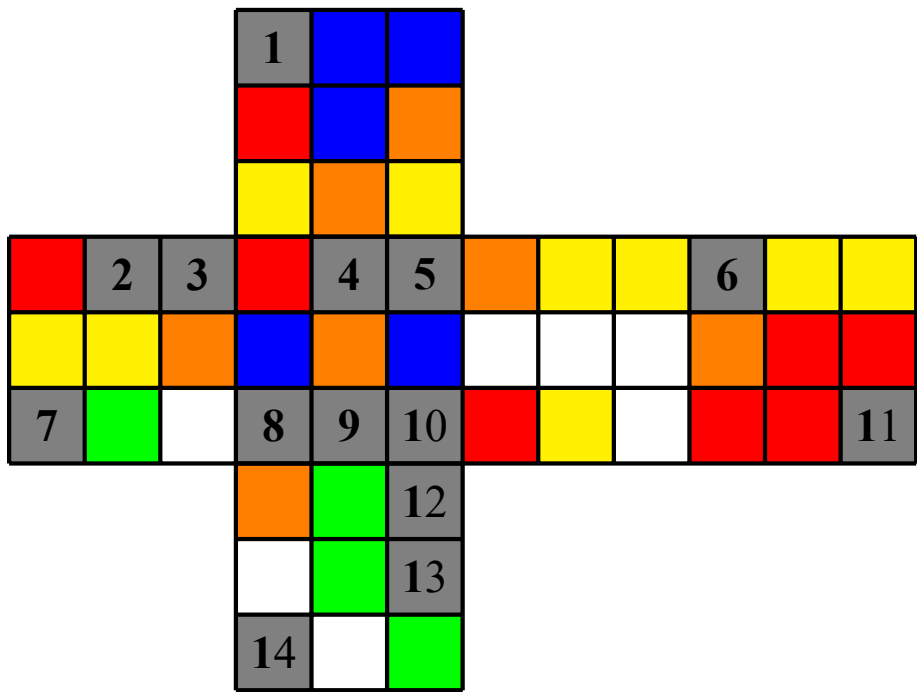
**No. 88**      **Difficulty:★★★★**



**Solution 88: F2 B2 U2 D2 R' F L D' R' F B2 R2 U' L' R' U' F2 L2 B L Fw' Uw**

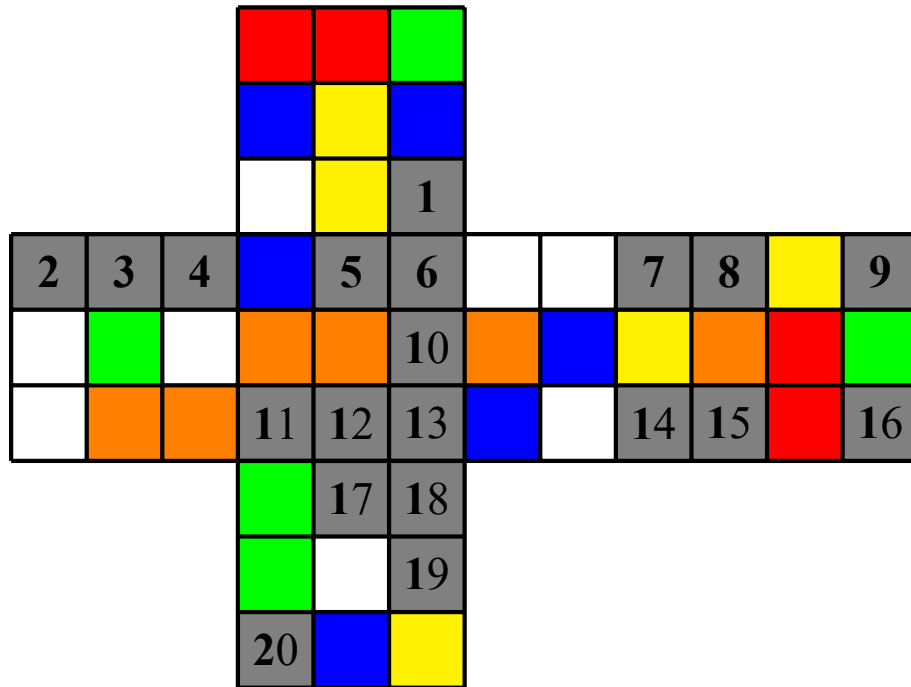
The grid is 15 columns wide and 15 rows high. A cross shape is highlighted in gray, consisting of the 5th column (rows 1-15) and the 5th row (columns 1-15). The numbers 1 through 15 are placed in the gray cells of the cross: 1 is at (5,1), 2 at (5,2), 3 at (5,3), 4 at (5,4), 5 at (5,5), 6 at (5,6), 7 at (5,7), 8 at (5,8), 9 at (5,9), 10 at (5,10), 11 at (5,11), 12 at (5,12), 13 at (5,13), 14 at (5,14), and 15 at (5,15). The colored squares are: red at (3,1), (3,2), (3,3), (3,4), (3,5), (3,6), (3,7), (3,8), (3,9), (3,10), (3,11), (3,12), (3,13), (3,14), (3,15); green at (4,1), (4,2), (4,3), (4,4), (4,5), (4,6), (4,7), (4,8), (4,9), (4,10), (4,11), (4,12), (4,13), (4,14), (4,15); blue at (6,1), (6,2), (6,3), (6,4), (6,5), (6,6), (6,7), (6,8), (6,9), (6,10), (6,11), (6,12), (6,13), (6,14), (6,15); yellow at (7,1), (7,2), (7,3), (7,4), (7,5), (7,6), (7,7), (7,8), (7,9), (7,10), (7,11), (7,12), (7,13), (7,14), (7,15); orange at (8,1), (8,2), (8,3), (8,4), (8,5), (8,6), (8,7), (8,8), (8,9), (8,10), (8,11), (8,12), (8,13), (8,14), (8,15); and white at (9,1), (9,2), (9,3), (9,4), (9,5), (9,6), (9,7), (9,8), (9,9), (9,10), (9,11), (9,12), (9,13), (9,14), (9,15).

**No. 90      Difficulty:★★★★**



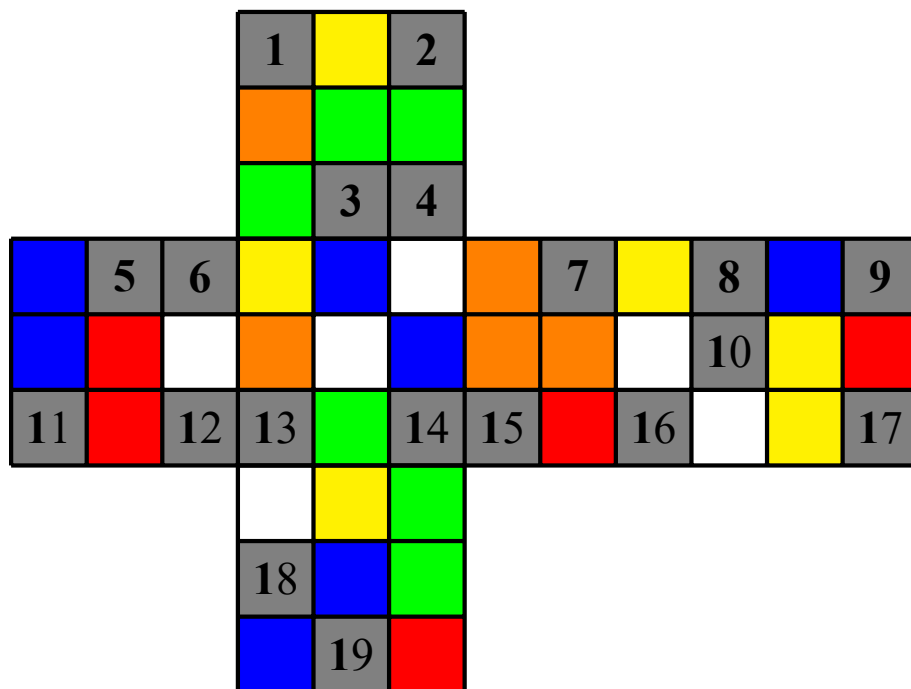
46

**No. 91      Difficulty:★★★★★**



**Solution 91: L2 D' U B2 R D' F L B' F2 U' D' F2 B' R2 U2 B F L R' Uw2**

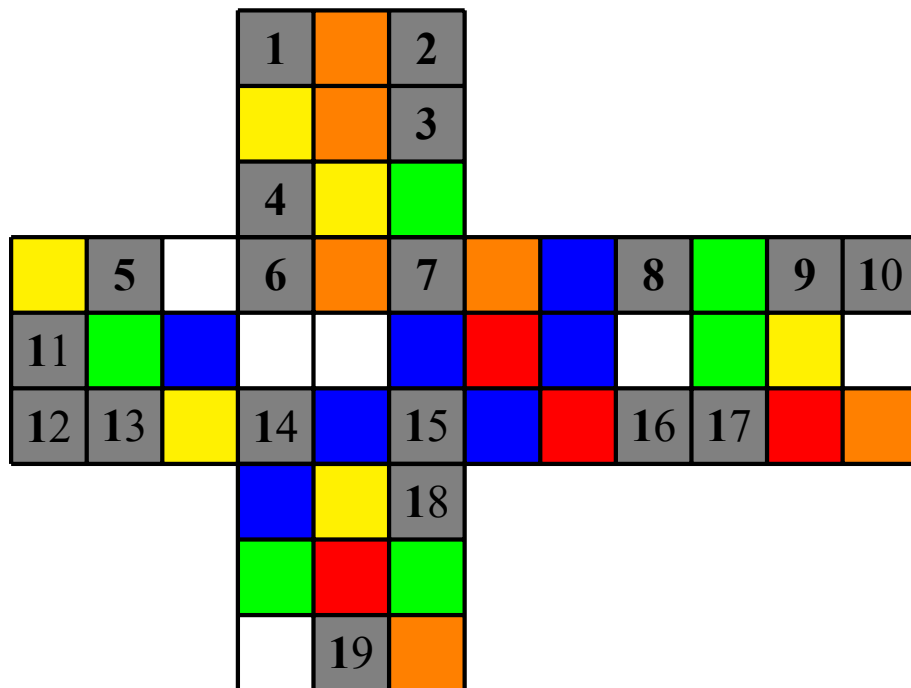
**No. 92      Difficulty:★★★★★**



**Solution 92: F D' F U B2 D2 L' D R F B' L' F U2 B2 F R2 B2 R U' Fw' Uw**

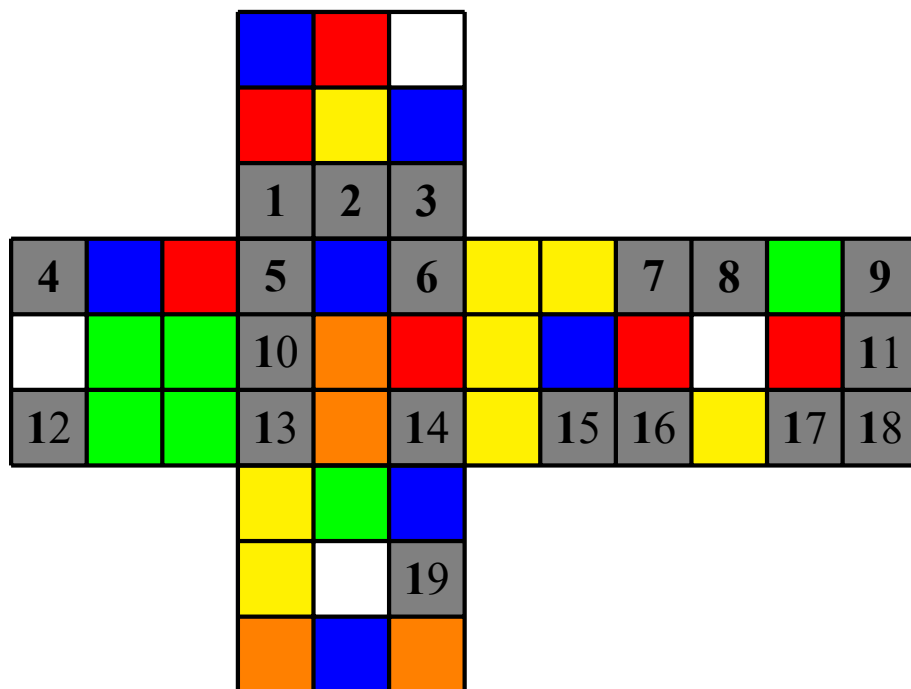


**No. 93      Difficulty:★★★★★**



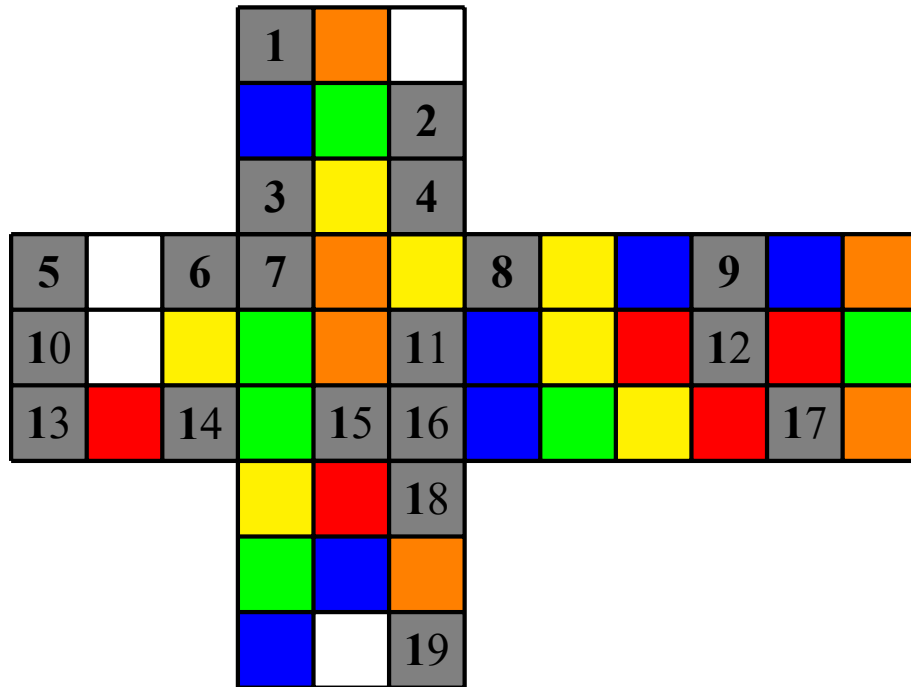
**Solution 93: F' R' U2 D2 L2 D R2 F' U2 R L U' F2 L R' F' L' R2 F D' Rw' Uw2**

**No. 94      Difficulty:★★★★★**



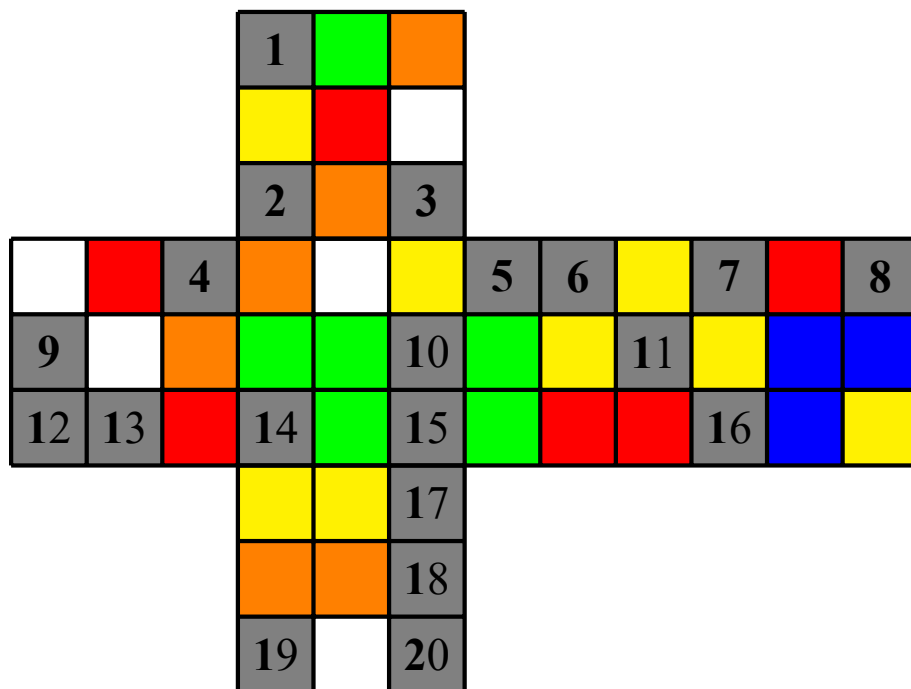
**Solution 94: B2 U' D' B2 U2 R F D2 U R' L D B F' U D R2 D' F D2 Uw2**

**No. 95**      **Difficulty:★★★★★**



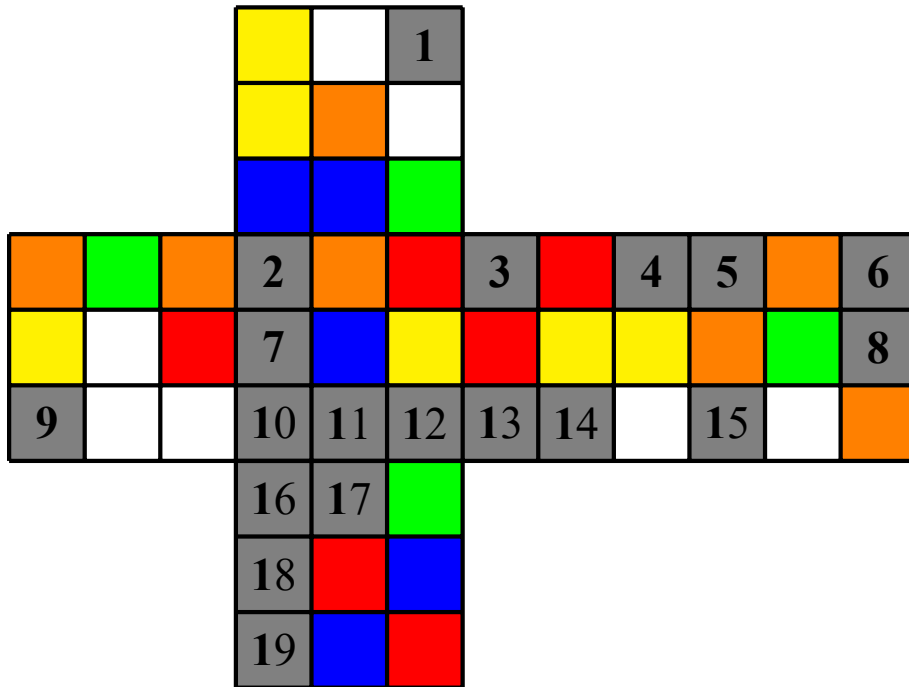
**Solution 95:** B2 D' F2 D F' R' F B2 D B2 L D2 L D' F U B2 F L2 U Fw' Uw2

**No. 96**      **Difficulty:★★★★★**



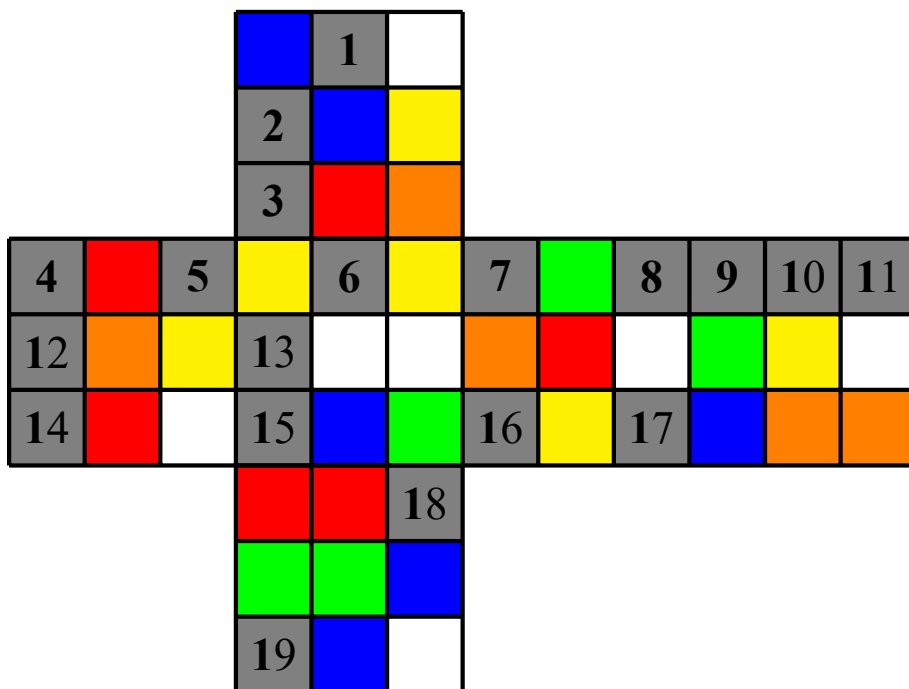
**Solution 96:** U L' R D' R L' B' F' L F B' U' B' D' F' U' L' F2 R' L Rw Uw

**No. 97**      **Difficulty:★★★★★**



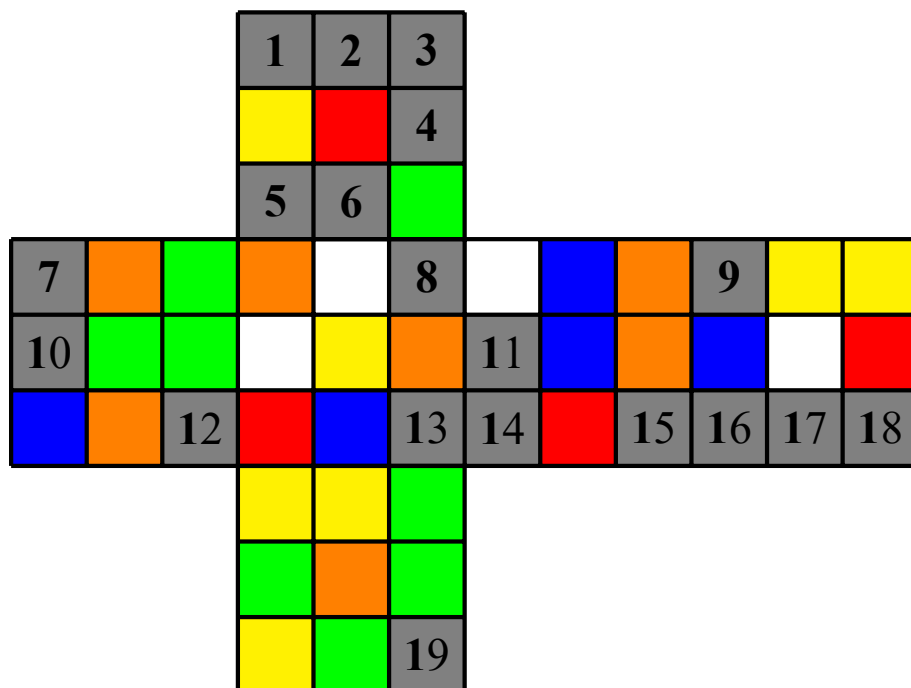
**Solution 97: B2 L B2 L U2 L R U F' D' R L2 D B' L2 U' D R2 L' D2 Rw' Uw'**

**No. 98**      **Difficulty:★★★★★**



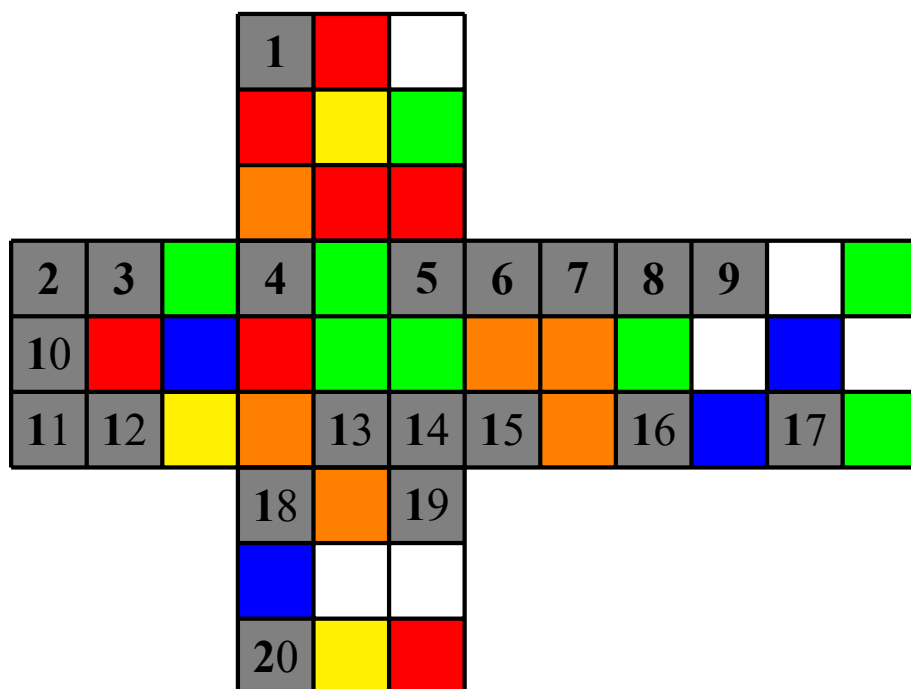
**Solution 98: L' R' B' D R2 F' B R' L2 B F2 U' D' B' U' L' D2 L2 U R Fw Uw'**

**No. 99**      **Difficulty:★★★★★**



**Solution 99: L B2 R2 L2 B' L2 F L F' R' D R' L' F2 B' U B' U2 R2 L2 Rw Uw2**

**No. 100**      **Difficulty:★★★★★**



**Solution 100: R2 F' U L F2 R' L' F' D U2 B D L D L B' F' L2 U2 B Uw**