



1) iaconal

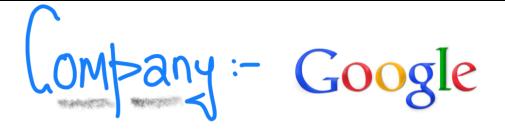
raverse - (1)

Facebook] > code storywith MIK

(Twitter) > CS with MIK

codestorywith MIK ->

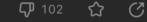




1424. Diagonal Traverse II

Hin

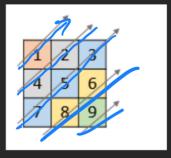
Medium 1.3K



Companies

Given a 2D integer array nums, return all elements of nums in diagonal order as shown in the below images.

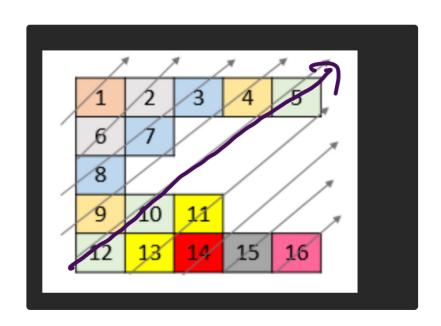
Example 1:



1,4,2,7,5,3,6,6,9

Input: nums = [[1,2,3],[4,5,6],[7,8,9]]

Output: [1,4,2,7,5,3,8,6,9]

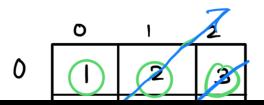


Approach-1

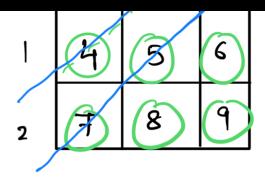


Whenever asked to do "Diagonal"
traversal in Tree, 2-D matrix etc.

Map

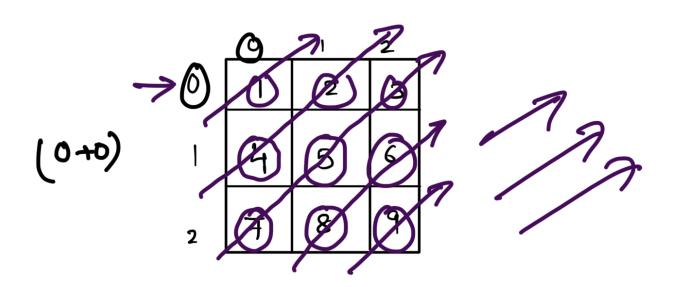


TOW +(2) = () + 1 = 1



$$\begin{array}{c|c}
(800+(01)) & Values & (int) \\
0 & (2, 4) \\
2 & (3, 5, 7) \\
3 & (6, 8) \\
4 & (4)
\end{array}$$

1,44,23, (7,5,3), 58,6), 9



map

| (son+col) | Values | |
|---------------------------|-------------|---------------------|
| 2 | {7,5,3} | |
| (3) | 88,64 | |
| <u>(9)</u> | 893 | diagonal = g/yz |
| $\overset{\circ}{\wedge}$ | <u> </u> | |
| \bigcirc | 14,2} | [1, 4,2, 7,5,3,6,6, |
| (O) | ∮1 } | ره بر در در م |
| | | 79 |

Approach-2 (BFS)??

Intuition :-

| 0 S ¹ 2 3 | 2 | | 777 | (0,0 | Visit. (11)- | |
|----------------------|----------|----------|--------------|-------|--------------|-------|
| 1 | 28) | | υ, <i>ν)</i> | | que | ee |
| (0,0) | (1,00) | (0/1) | (2,0) | (1/1) | op | , |
| | 1 | ↓ | 1 | V | | |

