


00 Zig Zag Question Explanation

Consider a 3×3 matrix like this:

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

You start at the top-left corner, which is number 1.

Then, you move one step down, to number 4.

After that, you start moving diagonally upwards to the right, so you move to 2.

Since you've hit the edge of the matrix, you now move one step to the right, to number 3.

Next, you move diagonally downwards to the right, which takes you to 5.

You're not at the edge yet, so you continue moving diagonally downwards to the right, which takes you to 7.



You're at the edge of the matrix again, so you move one step to the right, which takes you

You're at the edge of the matrix again, so you move one step to the right, which takes you to 8.

Finally, you move diagonally upwards to the right to 6, and then since you hit the edge of the matrix, you move one step to the right, which takes you to 9.

So the zigzag pattern would look like this:

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```
1  ↓
4  ↗
2  → ↓
5  ↘ →
8  ↗ →
9
```

The numbers we've visited, in order, are: `1, 4, 2, 3, 5, 7, 8, 6, 9`.

So, a zigzag pattern in this context means moving in a pattern that looks like a back-and-forth "zigzag". If you imagine drawing a line between these numbers in the order we've visited them, it would look like a zigzag pattern.