

Jumping Cat

Problem Statement:

You are given a rectangular grid of order $n \times m$ (rows \times columns) with an integer in each cell representing the maximum distance the cat can jump from the corresponding cell. The cat can only jump either horizontally or vertically (i.e the 4 directions around the cell). The cat can neither jump diagonally nor jump out of the grid. Find the minimum number of jumps required to reach $(n-1, m-1)$ from $(0,0)$, the initial position of the cat. If it's impossible to reach $(n-1, m-1)$, print "Impossible".

Input:

The first line consists of an integer t , the number of test cases. For each test case the first line consists of two integers n and m , the number of rows and columns in the grid followed by n lines describing the rectangular grid.

Output:

For each test case, find the minimum number of jumps required to reach the destination $(n-1, m-1)$ from the initial position $(0,0)$. If it's impossible to reach the destination, print "Impossible".

Input Constraints:

$$1 \leq t \leq 1000$$

$$2 \leq n \leq 100$$

$$2 \leq m \leq 100$$

$$0 \leq \text{grid}[i][j] \leq 5$$

Sample Input:

```
3
5 3
122
002
310
102
333
3 2
03
11
10
3 5
20312
03213
13130
```

Sample Output:

```
5
Impossible
3
```

