```
Question 1
Correct
Marked out of 10.00
```

You are given an m*n matrix such that n = m+1. In the given matrix, find if any number is consecutive for 3 times either in row, column, diagonals print the num.

If there are multiple such numbers, then print minimum of those numbers.

Input format

- · First line contains m, the number of rows
- · Following m lines contain n numbers

Example Input

```
6
2345624
2347676
2355552
2311213
1111903
2311512
Output
```

For example:

1

Ir	ıp	ut	Result								
6							1				
2	3	4	5	6	2	4					
2	3	4	7	6	7	6					
2	3	5	5	5	5	2					
2	3	1	1	2	1	3					
1	1	1	1	9	0	3					
2	3	1	1	5	1	2					

Answer: (penalty regime: 0 %)

```
1 ▼ def consec_num(matrix,m,n):
2
         min_num=float('inf')
3
         for i in range(m):
4
5
             for j in range(n-2):
                  \mbox{if } \mbox{matrix}[\mbox{i}][\mbox{j}] == \mbox{matrix}[\mbox{i}][\mbox{j} + 1] == \mbox{matrix}[\mbox{i}][\mbox{j} + 2] : 
6
7
                      min_num = min(min_num,matrix[i][j])
8
9
         for j in range(n):
10
             for i in range(m-2):
11,
                 if matrix[i][j] == matrix[i+1][j]==matrix[i+2][j]:
12
                      min_num=min(min_num,matrix[i][j])
13
         for i in range(m-2):
14
15
             for j in range(n-2):
                  if matrix[i][j]==matrix[i+1][j+1]==matrix[i+2][j+2]:
16
17
                      min_num=min(min_num,matrix[i][j])
18
19
         for i in range(m-2):
20
             for j in range(2,n):
21
                 if matrix[i][j] == matrix[i+1][j-1] == matrix[i+2][j-2]:
22
                      min_num=min(min_num,matrix[i][j])
23
24
         return min_num if min_num!= float('inf') else -1
25
26
    m=int(input())
27
28
    matrix=[list(map(int,input().split())) for _ in range(m)]
29
    n=m+1
20
```

```
31 | print(consec_num(matrix,m,n))
```

		Input							Expected	Got	
•	/	6							1	1	~
		2	3	4	5	6	2	4			
		2	3	4	7	6	7	6			
		2	3	5	5	5	5	2			
		2	3	1	1	2	1	3			
		1	1	1	1	9	0	3			
		2	3	1	1	5	1	2			

Passed all tests! 🗸