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

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

Output

1

For example:

Input	Result
6 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	1

Answer: (penalty regime: 0 %)

```
m=int(input())
matrix=[]
for i in range(m):
    row=list(map(int,input().split()))
    matrix.append(row)
n=m+1
found=set()
for row in matrix:
    for j in range(n-2):
        if row[i]==row[i+1]==row[i+2]:
            found.add(row[i])
for i in range(n,m-2):
    for j in range(n):
        if matrix[i][j]==matrix[i+1][j]==[i+2][j]:
            found.add(matrix[i][j])
for i in range(m-2):
    for j in range(n-2):
        if matrix[i][j]==matrix[i+1]==matrix[j+1]==matrix[i+2][j+2]:
            found.add(matrix[i][j])
for i in range(m-2):
    for j in range(2,n):
        if matrix[i][j]==matrix[i+1][j-1]==matrix[i+2][j-2]:
            found.add(matrix[i][j])
if found:
    print(min(found))
else:
    print(1)
```

	Input	Expected	Got	
✔	6 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	1	1	✔

Passed all tests! ✔