InfyTQ SET 002

Solved Challenges **4/5**

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Matrix Repeat Thrice

ID:10568 **Solved By 118 Users**

InfyTQ

The program must accept a number matrix having **R** rows and **C** columns. Then the program must check whether a number is repeated consecutively for **3** times either in a row, in a column or along a diagonal. If there are more than one such repeated numbers then the program must print the minimum value **V**. The program must print **-1** if no such value is repeated.
Note: C = R+1

Boundary Condition(s):
1 <= R <= 20

Input Format:
The first line contains R.
The next R lines contain C integer values separated by a space.

Output Format:
The first line contains V.

Example Input/Output 1:
Input:
7
2 3 4 5 6 2 4 3
2 3 4 7 6 7 6 2
2 3 5 5 5 5 2 5
2 3 1 1 2 1 3 6
10 1 1 1 9 0 3 51
2 10 1 1 5 1 51 7
5 2 10 1 1 51 2 1

Output:
1

Explanation:
The repeated values are **5 1 2 3 10 51**.
The minimum value is **1**.

Example Input/Output 2:
Input:
9
648 318 24 374 376 616 6 308 222 944
100 321 34 861 551 871 440 334 583 294
676 500 98 694 324 466 869 516 362 680
883 212 599 315 338 115 152 585 118 469

867 517 180 97 69 27 479 626 462 277
661 988 150 578 17 217 978 509 263 660
76 337 306 774 520 423 619 181 838 757
156 658 786 198 764 473 211 746 196 670
962 857 159 420 766 377 738 747 674 624

Output:
-1

Example Input/Output 3:
Input:
9
648 318 24 374 376 616 6 308 222 944
100 321 34 861 551 871 440 334 944 294
676 500 98 694 324 466 869 944 362 680
883 212 599 315 338 115 152 585 118 469
867 517 180 97 69 27 479 626 462 277
661 988 150 578 17 217 978 509 263 660
76 337 306 774 520 423 619 181 838 747
156 658 786 198 764 473 211 746 747 670
962 857 159 420 766 377 738 747 674 624

Output:
747

Example Input/Output 4:
Input:
9
648 318 24 883 376 616 6 308 222 944
100 321 883 861 551 871 440 334 583 294
676 883 98 694 324 466 869 516 362 680
883 212 599 315 338 115 152 585 118 469
867 517 180 97 69 27 479 626 462 277
661 988 150 578 17 217 978 766 263 660
76 337 306 774 520 423 766 181 838 757
156 658 786 198 764 766 211 746 196 670
962 857 159 420 766 377 738 747 674 624

Output:
766

Max Execution Time Limit: 500 millisecs

Ambiance

Python3 (3.x)

Reset

```
N = int(input())

ans=[]
matrix = []

for row in range(N):
    temp = (list(map(int,input().strip().split())))
    for index in range(N-1):
        if((temp[index]==temp[index+1] and temp[index]==temp[i
            +2]) and temp[index] not in ans):
            ans.append(temp[index])

    matrix.append(temp)

for row in range(N):
    for col in range(N+1):
        if(row<N-2):
            if((matrix[row][col] == matrix[row+1][col] and
                matrix[row][col] == matrix[row+2][col]) and
                matrix[row][col] not in ans):
                ans.append(matrix[row][col])

        if(col<N-1 and row<N-2):
            if((matrix[row][col]==matrix[row+1][col+1] and
                matrix[row][col] == matrix[row+2][col+2]) and
                matrix[row][col] not in ans):
                ans.append(matrix[row][col])

        if(col<N-1 and row>=2):
            if((matrix[row][col] == matrix[row-1][col+1] and
                matrix[row][col] == matrix[row-2][col+2]) and
                matrix[row][col] not in ans):
                ans.append(matrix[row][col])

if(len(ans)==0):
    print(-1)
else:
    print(min(ans))
```

Code did not pass the execution

TestCase ID: 58055

Input:

```
9
648 318 24 374 376 616 6 308 222 944
100 321 34 861 551 871 440 334 583 294
676 500 98 694 324 466 869 516 362 680
883 212 599 315 338 115 152 585 118 469
867 517 180 97 69 27 479 626 462 277
661 988 150 578 17 217 978 509 263 660
76 337 306 774 520 423 619 181 838 757
156 658 786 198 764 473 211 746 196 670
962 857 159 420 766 377 738 747 674 624
```

Expected Output:

```
-1
```

Your Program Output:

```
Traceback (most recent call last):
  File "Hello.py", line 28, in
    print(min(ans))
ValueError: min() arg is an empty sequence
```

Save Run

Run with a custom test case (Input/Output)