Maximum sum of hour glass in matrix 1

Problem	Submissions	Leaderboard	Discussions

Given a 2D matrix, the task is that we find maximum sum of a hour glass. if it's not possible print -1

Input Format

size of the array and followed by array elements

Output Format

print the max sum

Sample Input 0

```
5 5
0 3 0 0 0
0 1 0 0 0
1 1 1 0 0
```

Contest ends in 21 days

Submissions: 64
Max Score: 10
Difficulty: Medium

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More

```
0 0 2 4 4
0 0 0 2 4
```

Sample Output 0

```
11
```

Explanation 0

Below is the hour glass with maximum sum

1 0 0

4

0 2 4

<div>Java 7</div>

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
be named Solution. */
        Scanner sc=new Scanner(System.in);
        int r=sc.nextInt();
        int c=sc.nextInt();
        int arr[][]=new int[r][c];
        for(int i=0;i<r;i++)
            for(int j=0;j<c;j++)
                arr[i][j]=sc.nextInt();

```

```java
19
20          int t=0,m=0,l=0;
21          int max=Integer.MIN_VALUE;
22          for(int i=0;i<r-2;i++){
23              for(int j=0;j<c-2;j++){
24                  t=arr[i][j]+arr[i][j+1]+arr[i][j+2];
25                  m=arr[i+1][j+1];
26                  l=arr[i+2][j]+arr[i+2][j+1]+arr[i+2][j+2];
27                  max=Math.max(max,t+m+l);
28              }
29          }
30          if(max==Integer.MIN_VALUE)
31              System.out.print("-1");
32          else
33              System.out.print(max);
34      }
35 }
```

Line: 1 Col: 1

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