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 print the max sand glass

# print the max sand glass

Problem

Submissions

Leaderboard

Discussions

Given a 2D matrix, the task is that we find maximum sum of a hour glass and print the matrix.

## Input Format

size of the array and followed by array elements

## Constraints

if hour glass is not there means print -1

## Output Format

print the max sum sand glass

## Sample Input 0

```

3 3
1 1 1
2 2 2
3 3 3
    
```

[f](#)
[t](#)
[in](#)

Contest ends in 21 days

Submissions: [26](#)

Max Score: 10

Difficulty: Medium

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## Sample Output 0

```
1 1 1
2
3 3 3
```

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
            be named Solution. */
11         Scanner sc=new Scanner(System.in);
12         int r=sc.nextInt();
13         int c=sc.nextInt();
14         int arr[][]=new int[r][c];
15         for(int i=0;i<r;i++)
16             for(int j=0;j<c;j++)
17                 arr[i][j]=sc.nextInt();
18
19         int max=Integer.MIN_VALUE;
20         int ii=0,jj=0,t=0,m=0,l=0;
21         for(int i=0;i<r-2;i++){
22             for(int j=0;j<c-2;j++){
23                 t=arr[i][j]+arr[i][j+1]+arr[i][j+2];
24                 m=arr[i+1][j+1];
25                 l=arr[i+2][j]+arr[i+2][j+1]+arr[i+2][j+2];
26                 if(Math.max(max,t+m+l)>=max){
```

```
27         max=Math.max(t+m+l,max);
28         ii=i;
29         jj=j;
30     }
31 }
32 }
33 if(max==Integer.MIN_VALUE)
34     System.out.print("-1");
35 else{
36     System.out.println(arr[ii][jj]+" "+arr[ii][jj+1]+" "+arr[ii][jj+2]);
37     System.out.println(" "+arr[ii+1][jj+1]+" ");
38     System.out.print(arr[ii+2][jj]+" "+arr[ii+2][jj+1]+" "+arr[ii+2][jj+2]);}
39 }
40 }
```

Line: 1 Col: 1

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