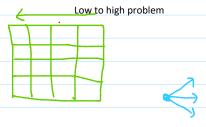
```
//<mark>Goldmine problem - max. no. of golds can we mine in the path</mark>
//
```

```
import java.io.*;
import java.util.*;
public class Main{
  public static void main(String[] args) throws Exception {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int m = scn.nextInt();
    int[][] costs = new int[n][m];
    for(int i=0;i<costs.length;i++)
       for(int j=0;j<costs[0].length;j++)
         costs[i][j] = scn.nextInt();
     int[][] dp=new int[costs.length][costs[0].length];
    for(int j=dp[0].length-1;j>=0;j--)
       for(int i=0;i<dp.length;i++)
         if(j==dp[0].length-1)
            dp[i][j]=costs[i][j];
         else if(i==0)
              dp[i][j] = costs[i][j] + Math.max(dp[i][j+1], dp[i+1][j+1]); \\
         else if(i==dp.length-1)
              dp[i][j] = costs[i][j] + Math.max(dp[i][j+1],dp[i-1][j+1]); \\
            dp[i][j] = costs[i][j] + Math.max(dp[i-1][j+1],Math.max(dp[i][j+1],dp[i+1][j+1]));
    int max=-1;
     for(int i=0;i<dp.length;i++)
       if(max<dp[i][0])
       {
         max=dp[i][0];
    System.out.println(max);
```



Problem is divided into 4 parts -

- 1. When column ==last
- 2. When row==0th
- 3. When row==last
- 4. Remaining part

Fill the 2-d dp array.

Then from the first column, find the maximum element

