



# The Blacklist

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Problem

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A new gangster is trying to take control of the city. He makes a list of his  $N$  adversaries (e.g. *gangster 1*, *gangster 2*, ... *gangster  $N - 1$* , *gangster  $N$* ) and plans to get rid of them.

$K$  mercenaries are willing to do the job. The gangster can use any number of these mercenaries. But he has to honor one condition set by them: they have to be assigned in such a way that they eliminate a consecutive group of gangsters in the list, e.g. *gangster  $i$* , *gangster  $i + 1$* , ..., *gangster  $j - 1$* , *gangster  $j$* , where the following is true:  $1 \leq i \leq j \leq N$ .

While our new gangster wants to kill all of them, he also wants to pay the least amount of money. All mercenaries charge a different amount to kill different people. So he asks you to help him minimize his expenses.

## Input Format

The first line contains two space-separated integers,  $N$  and  $K$ . Then  $K$  lines follow, each containing  $N$  integers as follows:  
The  $j^{\text{th}}$  number on the  $i^{\text{th}}$  line is the amount charged by the  $i^{\text{th}}$  mercenary for killing the  $j^{\text{th}}$  gangster on the list.

## Constraints

- $1 \leq N \leq 20$
- $1 \leq K \leq 10$
- $0 \leq \text{amount charged} \leq 10000$

## Output Format

Just one line, the minimum cost for killing the  $N$  gangsters on the list.

## Sample Input

```
3 2
1 4 1
2 2 2
```

## Sample Output

```
5
```

## Explanation

The new gangster can assign *mercenary 1* to kill *gangster 1*, and *mercenary 2* to kill *gangster 2* and *gangster 3*.

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Submissions: [555](#)

Max Score: 100

Difficulty: Advanced

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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     }
12 }
```

Line: 1 Col: 1

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