



## Warm hand - Snap in Shakrestan

- Time limit: 1 second
- Memory limit: 256 MB

This question is given to you only for your initial familiarity with two-dimensional arrays and as a warm hand, and outside of that, it has no special value!

Snap has recently expanded its work and serves the people of Shakrestan in addition to Iran. Sugaristan is divided into  $N$  regions, and the cost of travel from region  $i$  to region  $j$  is a certain value, which we denote by  $A_{ij}$ . ( Note that the cost of traveling from  $i$  to  $j$  may be different from the cost of traveling from  $j$  to  $i$ . )

This month Iskandar M has traveled with Snap and now he wants to calculate the total cost of these trips.

Now we give you the cost of travel from each region to other regions, as well as for each Iskandar trip, its origin and destination. You have to say how much was the total cost of Alexander's travels. Of course, since Iskandar is not a lazy person at all, we guarantee you that the origin and destination region are different for each trip .



### Questions

25

Warm hand - reverse  
printing

25

**Warm hand - Snap in  
Shakrestan**

50

Just cross the zeros and  
ones

100

All the way back

150

The segregation

100

Khayyam Triangle

150

Bubble Sort

150

Enclosed area

[All submissions](#)[Final submissions](#)[Scoreboard](#)

For better understanding, read the input section and input explanation of example 1.



## Input

First, you will be given  $N$  and  $M$  in a line, which represent the number of regions of Shakrestan and the number of Alexander's travels, respectively. Then in the next  $N$  line, in each  $N$  line, you will be given a number, the  $j$ th number in the  $i$ th line is the cost of traveling from region  $i$  to region  $j$  or  $A_{ij}$ . Then in the next  $M$  line in each line you will be given two numbers such as  $x_k$  and  $y_k$ , which respectively represent the origin and destination of Alexander's  $k$  journey. To understand more, be sure to read the explanation of example 1.

$$2 \leq N \leq 10$$

$$1 \leq M \leq 20$$

$$1 \leq A_{ij} \leq 1000$$

$$1 \leq x_k, y_k \leq N$$

$$x_k \neq y_k$$

## Output

On one line, print a number that represents the total cost of Alexander's travels.

## Example

**Sample input 1**

### Sample input 1

```
3 3
1 50 66
72 1 12
91 29 1
1 3
2 3
3 1
```

### Sample output 1

```
169
```

**Explanation:** According to the inputs of the question, Iskandar has made 3 trips, the cost of the first trip is 66, the cost of the second trip is 12, and the cost of the third trip is 91, and he has paid a total of  $169 = 91 + 12 + 66$ .

### Sample input 2

```
4 4
277 30 971 789
65 379 158 855
892 92 267 454
449 293 735 533
2 3
4 3
1 3
2 4
```

## Sample output 2

2719

POST AN ANSWER TO THIS QUESTION

.The training period is over

### with Quera

Work with us

contact us

about us

Terms and Conditions

Sponsorship of competitions

### events

Kodak

skill up

Trainee exhibition

Tracey

### Sources

Quora blog

Programmers' salary calculator

Statistics of the programming world

subscribe to newsletter

### Products

Teaching programming

Recruitment ads

Programming questions

Competitions

classes

Employment platform

Quera Jr



Proudly made in Iran 1401 - 1394

