



## Problem: CBUS

### Description

There are  $n$  passengers  $1, 2, \dots, n$ . The passenger  $i$  want to travel from point  $i$  to point  $i + n$  ( $i = 1, 2, \dots, n$ ). There is a bus located at point  $0$  and has  $k$  places for transporting the passengers (it means at any time, there are at most  $k$  passengers on the bus). You are given the distance matrix  $c$  in which  $c(i, j)$  is the traveling distance from point  $i$  to point  $j$  ( $i, j = 0, 1, \dots, 2n$ ). Compute the shortest route for the bus, serving  $n$  passengers and coming back to point  $0$ .

### Input

- Line 1 contains  $n$  and  $k$  ( $1 \leq n \leq 11, 1 \leq k \leq 10$ )
- Line  $i+1$  ( $i=1, 2, \dots, 2n+1$ ) contains the  $(i-1)^{\text{th}}$  line of the matrix  $c$  (rows and columns are indexed from  $0, 1, 2, \dots, 2n$ ).

### Output

- Unique line contains the length of the shortest route.

### Example

#### Input

```
3 2
0 8 5 1 10 5 9
9 0 5 6 6 2 8
2 2 0 3 8 7 2
5 3 4 0 3 2 7
```

```
9 6 8 7 0 9 10
3 8 10 6 5 0 2
3 4 4 5 2 2 0
```

**Output**

25

## Sample TestCase

C 17



1 Write your Source code here

## Source code

C 17



```
1 //C
2 #include <stdio.h>
3
```

```
3  
4  int main()  
5  {  
6  
7  }
```

SUBMIT CODE

Or

C 17 ▼

Select file

SUBMIT

🔍 Tìm kiếm



ID	Bài tập	Trạng thái	Message	Điểm	Ngôn ngữ	
Không có bản ghi nào để hiển thị						
5 hàng ▾  < < 0-0 của 0 > >						