



Problem: Week 6 - Max Flow

Description

Given a network $G = (V, E)$ which is a directed weighted graph. Node s is the source and node t is the target. $c(u,v)$ is the capacity of the arc (u,v) . Find the maximum flow on G .

Input

- Line 1: two positive integers N and M ($1 \leq N \leq 10^4$, $1 \leq M \leq 10^6$)
- Line 2: contains 2 positive integers s and t
- Line $i+2$ ($i = 1, \dots, M$): contains two positive integers u and v which are endpoints of i^{th} arc

Output

Write the value of the max-flow found

Example

Input

7 12

6 7

1 7 7

2 3 6

2 5 6

3 1 6

3 7 11

4 1 7

4 2 4

4 5 5

5 1 4

5 3 4

6 2 8

6 4 10

Output

17

Sample TestCase

C 17



1 Write your Source code here

Source code

C 17



```
1 //C
2 #include <stdio.h>
3
4 int main()
5 {
6
7 }
```

SUBMIT
CODE

Currently, this contest problem
is not open for submissions

Or

C 17

Select file

SUBMIT

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Tìm kiếm

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ID	Bài tập	Trạng thái	Mess
053771	MAX_FLOW	Accept	

5 hàng

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