# Time limit: 1.00 s Memory limit: 512 MB

Consider a network consisting of n computers and m connections. Each connection specifies how fast a computer can send data to another computer.

Kotivalo wants to download some data from a server. What is the maximum speed he can do this, using the connections in the network?

## Input

The first input line has two integers n and m: the number of computers and connections. The computers are numbered  $1, 2, \ldots, n$ . Computer 1 is the server and computer n is Kotivalo's computer.

After this, there are m lines describing the connections. Each line has three integers a, b and c: computer a can send data to computer b at speed c.

# Output

Print one integer: the maximum speed Kotivalo can download data.

### Constraints

- $1 \le n \le 500$
- $1 \le m \le 1000$
- $1 \leq a, b \leq n$
- $1 \le c \le 10^9$

## Example

## Input:

- 4 5
- 1 2 3
- 2 4 2
- 1 3 4
- 3 4 5
- 4 1 3

### Output: