# Black Friday

The year is 1955 and online shopping doesn’t exist. However, **"Black Friday"** is approaching, and Roi wants to be prepared.

Roi wants to **visit every shop** in the town for as little time as possible. So, you are appointed to solve this problem.

You will be given the **number** of **shops** on the first line, then the number of **roads** (**n**), and on the next **n** lines you will receive which shops the road connects and the travel time.

Assume you can **start from any** shop and your target is to **visit every one** of them with the **minimum travel time**.

### Input

* On the **first line** you will be given the **number of** the **shops.**
* On the **second** line you will be given the **number of streets** (**n**)
* On the **next n** **lines,** you will be given a connection in the format: **"{firstShop} {secondShop} {time}"**

### Output

* Print the **total time** of the trip you have chosen.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 5  6  0 3 10  0 4 2  4 1 6  1 3 11  2 3 5  2 4 15 | 23 | The minimum travel time to visit all shops is:   * 2 -> 3 (5) * 3 -> 0 (10) * 0 -> 4 (2) * 4 -> 1 (6) |