# Le Tour de Sofia

Pierre is training for the famous bicycle tour of Sofia. He is a cyclist, the laziest at that, and he is planning a workout route…the shortest one.

You are given all **junctions** and all **one-way streets** in Sofia with the **distance** from **junction A** to **junction B**.

Help Pierre find the **length of the shortest route starting at a given junction and ending back there**.

If there is no such route print the **numbers of junctions reachable from the start**.

## Input

* The **first line** holds an integer **n** – the number of junctions.
* On the **second line**, you will receive the number **m** – the number of streets.
* On the **third** **line**, **s** - the start of the route
* At the next **m** **lines**, you will receive the streets in the format: **{from junction} {to junction} {distance}**

## Output

* If there is a route from the start and back to it, print the length of the route.
* If there is no such a route, print the count of reachable junctions from the start.

## Constraints

* Number of junctions will be an integer in the range [**0**…**10000**]
* Number of streets will be an integer in the range [**0…10000**]
* All junctions will be numbered from **0** to **N - 1**.
* Time limit: **100 ms**. Allowed memory: **20 MB.**

## Examples

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Output** | **Visual** | **Comment** |
| 7  10  0  0 2 5  2 1 10  1 0 25  3 0 30  3 1 55  2 4 15  3 4 25  4 5 1  5 6 2  6 3 3 | 40 | Diagram  Description automatically generated | The shortest route starting at 0 is:  0 🡪 2 🡪 1 🡪 0 |
| 3  2  1  0 1 5  1 2 10 | 2 | Shape, arrow  Description automatically generated | There is no route for Pierre. Junctions that can be reached: 1, 2 |