



## Output

Output several lines in the following format to describe the input data of a simple undirected graph that makes the variable `cnt` in the SPFA function no less than  $k$  **at some time**.

The first line contains two integers  $n$  ( $1 \leq n \leq 100$ ) and  $m$  ( $0 \leq m \leq 10^3$ ), indicating the number of vertices and edges in the graph.

Then  $m$  lines follow, the  $i$ -th of which contains three integers  $u_i, v_i$  ( $1 \leq u_i, v_i \leq n$ ) and  $w_i$  ( $1 \leq w_i \leq 10^6$ ), indicating that the  $i$ -th edge in the graph has a weight of  $w_i$  and connects the  $u_i$ -th and the  $v_i$ -th vertices.

Note that a simple graph contains no self-loops and no multiple edges.

## Example

standard input	standard output
1	4 6 1 2 1 2 3 2 3 4 3 4 1 4 1 3 5 2 4 6

## Note

For your convenience, you can copy the C++ code, which corresponds to the given pseudo code, from the contest website. Save the code as `spfa.cpp`, use `g++ spfa.cpp -O2 -o spfa` to compile it and you will get an executable file named `spfa`. Run `spfa`, feed your output to its standard input and it will print out the **final** value of `cnt`. Given the sample output it will print out 4, which means the sample output is not sufficient to pass the secret test case.

Note that the given code does not check the validity of your output (for example it does not check if your output is really a simple graph). You might still fail the test if your output is invalid, even if the executable prints out a large value.