

Even Tree

Input file: **standard input**
Output file: **standard output**
Time limit: 2 seconds
Memory limit: 512 megabytes

You are given a connected undirected weighted graph with n vertices and m edges. Choose exactly $n - 1$ edges so that the graph is connected and the total weight of the selected edges is even, or say that this is impossible.

Input

The first line contains two integers n and m ($1 \leq n, m \leq 3 \cdot 10^5$; $n - 1 \leq m$) — the number of vertices and edges, respectively.

The next m lines contain information about the edges. The $(i + 1)$ -th line of the input contains three integers v_i, u_i, w_i ($1 \leq v_i, u_i \leq n$; $0 \leq w_i \leq 10^9$) — the endvertices of the i -th edge and its weight, respectively. The graph can have multiple edges and loops.

Output

If there is no possible answer, print ‘NO’.

Otherwise, print ‘YES’ and the numbers of the selected edges. If there are multiple correct answers, you can print any of them.

Scoring

Subtask	Points	Constraints
1	18	$n, m \leq 10$
2	23	all w_i are even
3	16	$n = m$
4	19	$n, m \leq 1000$
5	24	No additional constraints

Example

standard input	standard output
5 8 1 2 2 2 3 0 2 3 2 3 1 3 3 4 5 4 5 6 5 3 1 3 3 4	YES 1 4 5 6

Note

In the first example test, one possible answer is (1, 2), (3, 1), (3, 4) and (4, 5).

