# Words on graphs

## Input

The input is a directed (multi)graph.

The first line gives the number of edges M and the number of nodes N (>=2). Then each edge is described by a line of the form "FROM TO LABEL". Nodes (FROM, TO) are numbers in the range 0.. N-1 and labels are also numbers.

All numbers in the input are nonnegative integers <2000.

## Output

Print "YES" if there are two distinct walks with the same labelling from node 0 to node 1, otherwise print "NO".

### Example 1

#### Input:

Output: NO

# Example 2

Input: 10 9

- 0 2 0 2 1 0 2 3 0 3 4 0 4 2 0 2 5 0 5 6 0 6 7 0
- 780
- 820

#### Output:

YES

In this case the shortest labelling that appears on two walks is 0 repeated 10 times.

