

Every road is between two different cities, and there is at most one road between any two cities.

Output Format

Print 'YES' if such round trip exists, otherwise print 'NO'.

Constraints

 $1 \le n \le 10^5$ $1 \le m \le 2 \times 10^5$

 $1 \le a, b \le n$

Sample Input 1

56
13
12
53
15
24

