Today is Vasya's birthday. On this special occasion, he has organized a party for all of his friends. These friends are enumerated by integers from 11 to NN. Each of Vasya's friends has a **Knowledge Level**. In addition, each of them knows an arbitrary number of other people at the party. This friendship is bidirectional and transitive in nature, i.e if person AA knows person BB and person BB knows person CC, then we consider that person AA knows person CC. All these people who know each other come together and form a single group of friends.

Now, they decide to play a game. In this game, among all groups of friends, the one with the highest knowledge level within each group is elected to represent the group during the game. Let's call this person the leader of the group. If there are multiple candidates to be the leader of a group, you can select any of them arbitrarily. The game is then played after selecting these leaders.

Now, Vasya wants to find the number of distinct ways the game can be played. He finds this task too hard and wants you to help him. As this number can be large, print it **Modulo** 109+7109+7.

**Input Format**:

The first line contains two integers NN and MM denoting the number of people Vasya has invited to the party and the number of relations between these people. The next line contains NN space separated integers denoting the where the ithith integer denotes the knowledge level of person ii. Each of the next MM lines contains 22 space separated integers uu and vv denoting that person uu knows person vv and vice-versa.

**Output Format**

Print the required answer on a single line. As the answer may be large, print it **Modulo** 109+7109+7

**Constraints**

1≤N≤1051≤N≤105

0≤M≤1050≤M≤105

0≤A[i]≤1090≤A[i]≤109

1≤u,v≤N1≤u,v≤N

M≤(N∗(N−1))/2M≤(N∗(N−1))/2

**Note**:

There can be self loops, i.e edges from and to the same person and multple edges from one person to another.

**SAMPLE INPUT**

5 4

1 2 3 4 5

1 2

2 3

3 4

4 5

**SAMPLE OUTPUT**

1

**Explanation**

Here, all the people at the party know each other. Among this group the person with the highest knowledge is person 55. Hence, there is only one way.