39. Number of Ways to Wear Different Hats to Each Other

There are n people and 40 types of hats labeled from 1 to 40.

Given a 2D integer array hats, where hats[i] is a list of all hats preferred by the ith person.

Return the number of ways that the n people wear different hats to each other.

Since the answer may be too large, return it modulo 109 + 7.

## Code:

## **Output:**

```
= RESTART:
1
```

## **Time Complexity:**

• T(n)=O(n\*2^k\*k)