# **Merge List**

Shashank is very excited after learning about the *linked list*. He learned about how to *merge* two linked lists. When we merge two linked lists, the order of the elements of each list doesn't change. For example, if we merge [1,2,3] and [4,5,6], [1,4,2,3,5,6] is a valid merge, while [1,4,3,2,5,6] is not a valid merge because 3 is appears before 2.

Shashank wants you to solve a problem for him: You are given two lists having sizes N and M. How many ways can we merge both the lists? It is given that all N+M elements are distinct. As your answer can be quite large, Shashank wants you to print it  $\mod 10^9+7$ .

### **Input Format**

The first line contains an integer T, the number of test cases. Each of the next T lines contains two integers N and M.

# **Output Format**

Print the value of the answer  $\mod 10^9 + 7$ .

#### **Constraints**

 $\begin{array}{l} 1 \leq T \leq 10 \\ 1 \leq N \leq 100 \\ 1 \leq M \leq 100 \end{array}$ 

## **Sample Input**

1

#### **Sample Output**

6

2 2

## **Explanation**

Suppose the two lists are [1,2] and [3,4]. The different ways of merging these lists are given below:

[1, 2, 3, 4][1, 3, 2, 4]

[3, 4, 1, 2]

[3, 1, 4, 2]

[1,3,4,2]

[3, 1, 2, 4]