## Matrix Tracing

A word from the English dictionary is taken and arranged as a matrix. e.g. "MATHEMATICS"

```
MATHE
ATHEM
THEMA
HEMAT
EMATI
MATIC
ATICS
```

There are many ways to trace this matrix in a way that helps you construct this word. You start tracing the matrix from the top-left position and at each iteration, you either move RIGHT or DOWN, and ultimately reach the bottom-right of the matrix. It is assured that any such tracing generates the same word. How many such tracings can be possible for a given word of length $m+n-1$ written as a matrix of size $m$ * $n$ ?

## Input Format

The first line of input contains an integer T. T test cases follow.
Each test case contains 2 space separated integers $m$ \& $n$ (in a new line) indicating that the matrix has $m$ rows and each row has n characters.

## Constraints

$1<=T<=10^{3}$
$1 \leq m, n \leq 10^{6}$

## Output Format

Print the number of ways $(S)$ the word can be traced as explained in the problem statement. If the number is larger than $10^{9}+7$, print $S \bmod \left(10^{\wedge} 9+7\right)$ for each testcase (in a new line).

## Sample Input

```
1
2 3
```


## Sample Output

```
3
```


## Explanation

Let's consider a word AWAY written as the matrix

## AWA <br> WAY

Here, the word AWAY can be traced in 3 different ways, traversing either RIGHT or DOWN.

```
AWA
    Y
AW
    AY
A
WAY
```

Hence the answer is 3 .
Timelimit Time limit for this challenge is given here

