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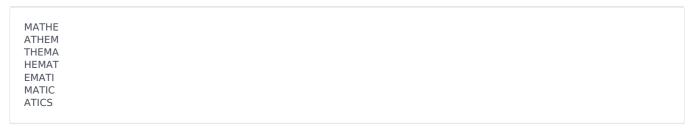
A word from the English dictionary is taken and arranged as a matrix. e.g. "MATHEMATICS"

```
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
$1 <= T <= 10^3$
$1 \le m,n \le 10^6$

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 mod (10^9 + 7) 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
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