# Sherlock and Permutations 

Watson asks Sherlock:
Given a string $S$ of $N$ 's and $M$ 1's, how many unique permutations of this string start with 1?
Help Sherlock by printing the answer modulo $\left(10^{9}+7\right)$.

## Input Format

First line contains $T$, the number of test cases.
Each test case consists of $N$ and $M$ separated by a space.

## Output Format

For each test case, print the answer modulo $\left(10^{9}+7\right)$.

## Constraints

$1 \leq \mathrm{T} \leq 200$
$1 \leq \mathrm{N}, \mathrm{M} \leq 1000$

## Sample Input

```
2
1 1
2 3
```


## Sample Output

## Explanation

Test1: Out of all unique permutations ie. 01 and 10 , only second permutation satisfies. Hence, output is 1.

Test2: Out of all unique permutations ie. 001110101101101011101001110101101101100111010 11100, only 100111010110110110011101011100 satisfy. Hence, output is 6.

