## Rivals

Mohamed Yasser (AKA Abo-3obaida) and Mohamed Ahmed (AKA Nesr) pretend to be rivals, the two clearly have a deep and understanding friendship.

One day they imagine that the city is a 2D plane with Cartesian coordinate system, the two rivals are located in point $(0,0)$, and they are targeting point ( $\mathrm{X}, \mathrm{Y}$ ).

They can make two moves only:

1) move right to the point $(X+1, Y)$.
2) move up to the point ( $X, Y+1$ ).

Nesrimmediately said: "l've figured out how many ways are there to reach our target". Abo-3obaida replied: "I'll not lose this challenge".

Could you help Abo-3obaida to figure out how many ways to the target?!
Since the required number may be very large, find its remainder of division by 1000000007 $\left(10^{9}+7\right)$.

## Input

The first line of input contains an integer $\mathbf{T}(1<=\mathbf{T}<=1000)$ followed by $\mathbf{T}$ test cases.
Each case contains two space-separated integers $\mathbf{X}, \mathbf{Y}\left(0<=\mathbf{X}, \mathbf{Y}<=10^{6}\right)$.

## Output

For each test case, print a single integer the answer to the problem modulo $1000000007\left(10^{9}+\right.$ 7).

## Example

## Input:

3
13
24
53
Output:
4
15
56

