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Number of Ways to Reach B



? Ask Doubt

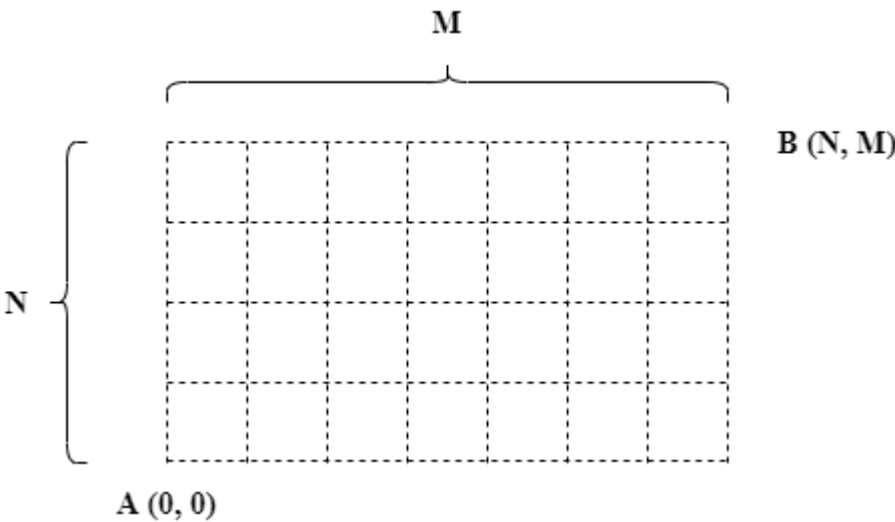
🕒 Time-Limit: 1 sec ✎ Score: 100.00/100 Difficulty : ★

📄 Memory: 256 MB ✔ Accepted Submissions: 100 Relevant For:

AZ-201

Description

You have given a grid of $N \times M$. You are initially at position $A(0, 0)$ and you want to reach $B(N, M)$. From the given cell (i, j) , we are allowed to move to cells $(i + 1, j)$ and $(i, j + 1)$ only.
Find the number of different ways to reach B from A ?



Input Format

The first line contains T ($1 \leq T \leq 100000$), the number of test cases.
Each of the next T lines contains two positive integers N, M ($1 \leq N, M \leq 10^5$).

Output Format

For each test case, print the number of ways to reach B from A . Since answer can be large, print it with modulo 1000000007.

Sample Input 1

📄 Copy

```
2
2 1
3 2
```

Sample Output 1

📄 Copy

```
3
10
```

C++14[GCC] ▾



Submit

```
6         lli ans=1;
7         while(b!=0){
8             if(b%2==1){
9                 ans=(ans*a)%m;
```