You are using at most  $\bf A$  number of 1s and at most  $\bf B$  number of 2s. How many different evaluation results are possible when they are formed in an expression containing only addition + sign and multiplication \* sign are allowed?

Note that, multiplication takes precedence over addition.

For example, if A=2 and B=2, then we have the following expressions:

```
1, 1*1 = 1
2, 1*2, 1*1*2, 1+1 = 2
1+2, 1+1*2 = 3
2+2, 2*2, 1+1+2, 1*2*2, 1*1*2*2, 1*2+1*2, 1*1*2+2, 1*2+2 = 4
1+2+2, 1+1*2+2 = 5
1+1+2+2, 1+1+2*2 = 6
```

So there are 6 unique results that can be formed if A=2 and B=2.

## **Input Format**

The first line contains the number of test cases T, T testcases follow each in a newline. Each testcase contains 2 integers A and B separated by a single space.

#### **Constraints**

```
1 <= T <= 10<sup>5</sup>
0<=A<=1000000000
0<=B<=1000
```

#### **Output Format**

Print the number of different evaluations modulo (%)  $(10^9+7.)$ 

## **Sample Input**

## **Sample Output**

# **Explanation**

- When A = 0, B = 0, there are no expressions, hence 0.
- When A = 2, B = 2, as explained in the problem statement above, expressions leads to 6 possible solutions.
- When A = 0, B = 2, we have 2, 2+2 or 2\*2, hence 2.
- When A = 2, B = 0, we have 1 or 1\*1, 1+1 hence 2.