

# Power with Combinatorics(EASY)

Your task is to calculate  $a^{(b^{(exp)})}$

a: provided in input,500 =>  $a \geq 0$

b: provided in input,500 =>  $b \geq 0$

$exp = (nC0)^2 + (nC1)^2 + (nC2)^2 + \dots + (nCn)^2$

n: provided in input,500=> $n \geq 0$

**Note: The Output for  $0^0$  should be 1.**

$nCr$  denotes n choose r.

As the answer can be too large , you need to output modulo  $10^9+7$ .

## Input

The first line of each input file contains number of test cases  $t(t \leq 1000)$ .

Then follow a new line.

Then follow t lines, each containing 3 integers, (i.e. a b n in order) each of them separated by a space.

## Output

Output Contains t lines, ith line contains the answer of the ith test case.

## Example

**Input:**

```
1
1 1 1
```

**Output:**

```
1
```

## Explanation

In first test case, the Value of exp is 2, value of  $1^{(1^2)}$  is 1,so output is 1.

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