## Power with Combinatorics

Your task is to find $\mathrm{a}^{\wedge}\left(\exp ^{\wedge}(\mathrm{b})\right)$,
a: Provided in input,10^5 $=>\mathrm{a}>=0$
b: Provided in Input,10^5 => b >= 0
$\exp =(\mathrm{nC} 0)^{\wedge} 2+(\mathrm{nC} 1)^{\wedge} 2+(\mathrm{nC} 2)^{\wedge} 2+\ldots+(\mathrm{nCn})^{\wedge} 2$,
n : Provided in the input, $10^{\wedge} 5=>n>=0$
As the answer can be too large, you need to output modulo $10^{\wedge} 9+7$.
nCr denotes n choose r .

## Input

The first line of each input file contains number of test cases $\mathrm{t}(\mathrm{t}<=1000)$.
Then follow a new line.
Then follow tlines, each containing 3 integers, (i.e. abn in order) each of them separated by a space.

## Output

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

## Example

## Input:

1
111
Output:
1

## Explanation

In First test case, the Value of $\exp$ is 2 , value of $1^{\wedge}\left(2^{\wedge} 1\right)$ is 1 , so output is 1 .
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