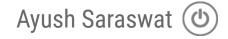
The TCS Global Coding Contest



05 Hr **55** Min **17** Sec

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ONLINE EDITOR (F)

Lazy Student

+ Problem Description

There is a test of Algorithms. Teacher provides a question bank consisting of N questions and guarantees all the questions in the test will be from this question bank. Due to lack of time and his laziness, Codu could only practice M questions. There are T questions in a question paper selected randomly. Passing criteria is solving at least 1 of the T problems. Codu can't solve the question he didn't practice. What is the probability that Codu will pass the test?

+ Constraints

0 < T <= 10000

0 < N, T <= 1000

0 <= M <= 1000

 $M,T \le N$

+ Input Format

First line contains single integer T denoting the number of test cases.

First line of each test case contains 3 integers separated by space denoting N, T, and M.

+ Output

For each test case, print a single integer.

If probability is p/q where p & q are co-prime, print (p*mullnv(q)) modulo 1000000007, where mullnv(x) is multiplicative inverse of x under modulo 1000000007.

+ Test Case

+ Explanation

Example 1	
Input	
1	
4 2 1	
Output	
50000004	
Explanation	
The probability is ½. So output is 500000004.	
Upload Solution [Question : F]	
I, ayush saraswat confirm that the answer submitted is my own. Choose a File	☐ Took help from online sources (attributions)

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