The TCS Global Coding Contest



04 Hr **54** Min **36** Sec

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ONLINE EDITOR (A)

Modified Fibonacci

В

+ Problem Description

As we know in Fibonacci series every number after the first two is the sum of the two preceding ones.

Instead of adding two preceding numbers, multiply them and print the result modulo 10⁴9+7.

Since this is easy, let"s make it bit difficult. Let"s say there are K numbers to begin with.

You have to find nth number, where nth number will be product of k previous numbers modulo 10^9+7 .

+ Constraints

1<=t<=10

1<=n<=10^6

1<=k<=10

1<=k[i]<=100

+ Input Format

First line contains T number of test case,

In each test case

First line contains two integers n, k delimited by space

Second line contains k integers delimited by space

+ Output

T lines, each line contains modified Fibonacci number modulo 109+7

+

+ Explanation Example 1 Input 1 43 123 Output 6 Explanation 4th modified Fibonacci number will be 1*2*3=6 Example 2 Input 103 123 Output 845114970 Explanation 4th, 5th, 6th modified Fibonacci numbers are 6, 36, 648 respectively Similarly 10th modified Fibonacci number will be 845114970 Upload Solution [Question : A] I, hari vusirikala confirm that the ■ Took help from online sources answer submitted is my own. (attributions)

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