

05 Hr **59** Min
27 Sec**Guidelines**

Coding Area

Editor | Compile &
Run History

Submissions

Feedback Form

Result

Graphs

Coding Area

A**B****C****D****E****F****ONLINE EDITOR (A)**

Modified Fibonacci

+ 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 10^9+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

$$1 \leq t \leq 10$$

$$1 \leq n \leq 10^6$$

$$1 \leq k \leq 10$$

$$1 \leq k[i] \leq 100$$

+ 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 10^9+7

+

+ Explanation

Example 1

Input

1

4 3

1 2 3

Output

6

Explanation

4th modified Fibonacci number will be $1*2*3=6$

Example 2

Input

1

10 3

1 2 3

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, **shivansh kumar** confirm that the answer submitted is my own.☐ Took help from online sources (attributions)Choose a
File...

CodeVita FAQ's
CodeVita Blog
Privacy Policy
Careers

CONNECT WITH US



