

GS Engineers Campus Hiring Program

Onh: 43m to test end



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☆ Subsets of 0s



- Programming

1

Ashutosh is a very mischievous student. His mathematics teacher wants to teach him a lesson so, he gave Ashutosh an array of positive integers Arr[a1, a2,...,an] where ai>0. primeSum is an integer which is equal to sum of all the prime factors of each element in Arr, modulus (10^6). Ashutosh's job is to find no of ways in which a set of 'primeSum' number of 0s can be divided into k subsets modulus(10^9+7).

Ashutosh is a little nervous, can you help him get out of this trouble?

Note: A subset can be empty



INPUT:

- Problem Solving -

The first line indicates the number of subsets, k.

The next line has a single integer n denoting the length of array.

- 3 Next n lines contain the integers in the array.
- 4 Input Format for custom testing:
 - 2 --> number of subsets, k
 - 3 --> length of the array
 - 3 --> length of the array for hackerrank representation of integer array followed by elements of the array
- 6
 - 2
- 6
- 8 OUTPUT:

An integer representing the number of ways in which a set of primeSum number of 0s can be divided into k subsets mod (10^9+7).

9

Constraints:

- 10 0<ai<=10^6
 - 1<=n<=10^5
- 1<=k<=100

INPUT:

12 Sample:

Advanced -

- 13 2
- 3
- Tell us about 3

yourself -

14 2

6

15

OUTPUT:

8

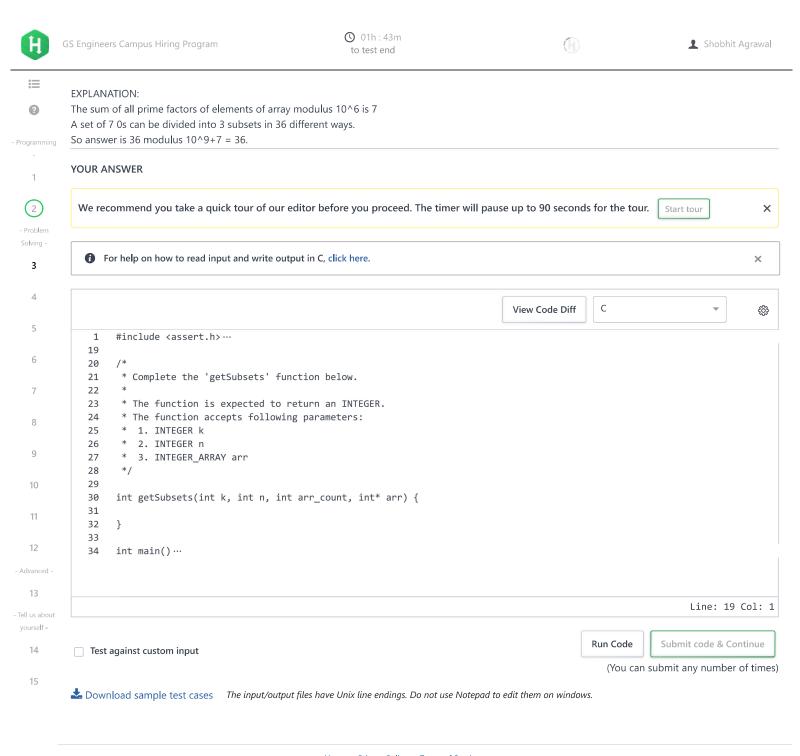
1

EXPLANATION:

The sum of all prime factors of elements of array modulus 10^6 is 7

INPUT:

- 3
- 3
- 3
- 2
- 6



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