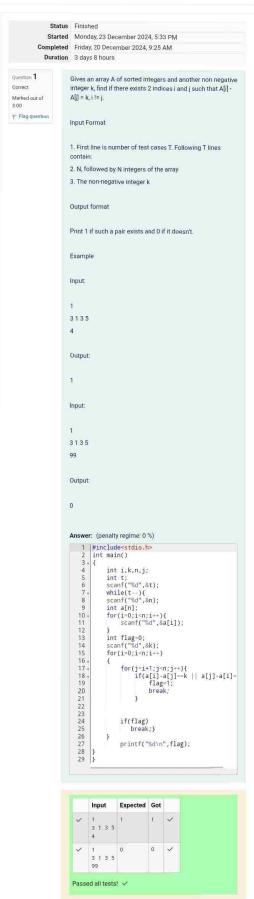
GE23131-Programming Using C-2024







Question 2 Correct Marked out of 5.00 F Flag question

Sam loves chocolates and starts buying them on the 1st day of the year. Each day of the year, x, is numbered from 1 to Y. On days when x is odd, Sam will buy x chocolates; on days when x is even, Sam will not purchase any chocolates.

Complete the code in the editor so that for each day Ni (where $1 \le x \le N \le Y$) in array arr, the number of chocolates Sam purchased (during days 1 through N) is printed on a new line. This is a function-only challenge, so input is handled for you by the locked stub code in the editor.

The program takes an array of integers as a parameter.

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Input Format

The program takes an array of integers as a parameter.

The locked code in the editor handles reading the following input from stdin, assembling it into an array of integers (arr), and calling calculate(arr).

The first line of input contains an integer, T (the number of test cases). Each line i of the T subsequent lines describes the ith test case as an integer, Ni (the number of days).

Constraints

```
1 ≤ T ≤ 2 × 105
1 ≤ N ≤ 2 × 106
1 \le x \le N \le Y
```

Output Format

For each test case, Ti in arr, your calculate method should print the total number of chocolates Sam purchased by day Ni on a new line.

Sample Input 0

```
3
```

3

Sample Output 0

Explanation

Test Case 0: N = 1

Sam buys 1 chocolate on day 1, giving us a total of 1 chocolate. Thus, we print 1 on a new line.

Test Case 1: N = 2

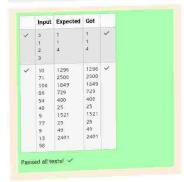
Sam buys 1 chocolate on day 1 and 0 on day 2. This gives us a total of 1 chocolate. Thus, we print 1 on a new line

Test Case 2: N = 3

Sam buys 1 chocolate on day 1, 0 on day 2, and 3 on day 3. This gives us a total of 4 chocolates. Thus, we print 4 on a new line.

Answer: (penalty regime: 0 %)

```
if(i%2!=0){
c=c+i;
      printf("%d\n",c);
```



Marked out of 7.00 F Flag question

The number of goals echieved by two football teams in matches in a league is given in the form of two lists. Consider:

Football team A, has played three matches, and has scored {1,2,3} goals in each match respectively.

Hence, the answer: {2, 3}. Complete the code in the editor below. The program must return an array of m positive integers, one for each maxes[s] representing the total number of elements nums[s] satisfying nums[s] is maxes[s] where 0 s j < n and 0 s i < m, in the given order. It has the following: nums[nums[0]...nums[n·1]]: first array of positive integers maxes[maxes[0]...maxes[n-1]]: second array of positive integers 2 ≤ n, m ≤ 105
 1 ≤ nums[j] ≤ 109, where 0 ≤ j < n.
 1 ≤ maxes[i] ≤ 109, where 0 ≤ i < m. Input from stdin will be processed as follows and passed to the function. The first line contains an integer n, the number of elements in nums. The next n lines each contain an integer describing nums[] where 0 s $j \in n$. The next line contains an integer m, the number of elements in maxes. The next m lines each contain an integer describing maxes[i] where $0 \le i \le m$. Sample Output 0 We are given n = 4, nums = [1, 4, 2, 4], m = 2, and maxes = [3, 5]. 5].

1. For maxes[0] = 3, we have 2 elements in nums (nums[0] = 1 and nums[2] = 2) that are = maxes[0].

2. For maxes[1] = 5, we have 4 elements in nums (nums[0] = 1, nums[1] = 4, nums[2] = 2, and nums[3] = 4) that are s maxes[1]. Thus, the function returns the array [2, 4] as the answer. Explanation 1 We are given, n=5, nume *[2,10,5,4,6], m=4, and masses =[3,1,7,8]. 1. For masses[9] =3, we have 1 element in nums (nums[o]) =2 that is a masses[9]. 2. For masses[1] =1, nerve are 0 elements in nums that are masses[1]. 3. For masses[2] =7, we have 3 elements in nums (nums[o]) =6, part and =2, nums[o] =8, and nums[o] =6) that are = masses[3]. 4. For masses[3] =8, we have 4 elements in nums (nums[o]) =6, that are = masses[3] =8, we have 4 elements in nums (nums[o]) =8, nums[o] =8, and nums[o] =8, nums[o] =8, and nums[o] =8, nums[o] =8, and nums[o] =8, nums[o] =8, nums[o] =8, and nums[o] =8, nums Thus, the function returns the array [1, 0, 3, 4] as the answer.