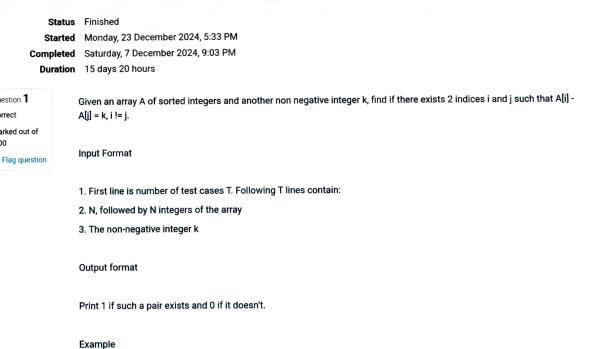
GE23131-Programming Using C-2024

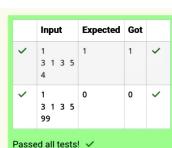




REC-CIS		
	Example	
	Input:	
	1	
	3135 4	
	Output:	
	1	
	Input:	
	1	
	3135	
	99	
	Output:	
	0	

```
Answer: (penalty require, 0 %)
      #include<stdio.h>
      int main()
   2
   3 ▼ {
           int t;
           scanf("%d",&t);
   5
           while(t--)
   7 ▼
               int n;
   8
               scanf("%d",&n);
  10
               int a[n];
  11
               for(int i=0;i<n;i++)</pre>
  12 ₩
  13
                   scanf("%d",&a[i]);
  14
  15
               int k;
  16
               scanf("%d",&k);
  17
               int flag=0;
  18
               for(int i=0;i<n;i++)
  19 ▼
  20
                   for(int j=i+1;j<n;j++)</pre>
  21 ₹
  22
                        if(a[i]-a[j]==k||a[j]-a[i]==k)
  23 ₹
  24
                            flag=1;
  25
                            break:
  26
  27
  28
                   if(flag)
  29
                   break:
  30
  31
               printf("%d\n",flag);
  32
  33
34 }
           return 0;
```

```
17
             int flag=0;
18
             for(int i=0;i<n;i++)
19 ₩
20
                 for(int j=i+1; j<n; j++)</pre>
21 ₩
22
                     if(a[i]-a[j]==k||a[j]-a[i]==k)
23 ₩
24
                         flag=1;
25
                         break;
26
27
28
                 if(flag)
29
                 break;
30
31
             printf("%d\n",flag);
32
33
        return 0;
34 }
```



Correct Marked out of 5.00 Flag question

Question 2

On days when x is odd, Sam will buy x chocolates; on days when x is even, Sam will not purchase any chocolates. Input Format and calling calculate(arr). Constraints $1 \le T \le 2 \times 105$ $1 \le N \le 2 \times 106$ $1 \le x \le N \le Y$

Output Format

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. the ith test case as an integer, Ni (the number of days).

The locked code in the editor handles reading the following input from stdin, assembling it into an array of integers (arr), The first line of input contains an integer, T (the number of test cases). Each line i of the T subsequent lines describes

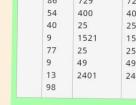
Sam loves chocolates and starts buying them on the 1st day of the year. Each day of the year, x, is numbered from 1 to Y.

REC-CIS 1 ≤ T ≤ 2 × 105 $1 \le N \le 2 \times 106$ $1 \le x \le N \le Y$ **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

REC-CIS 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.

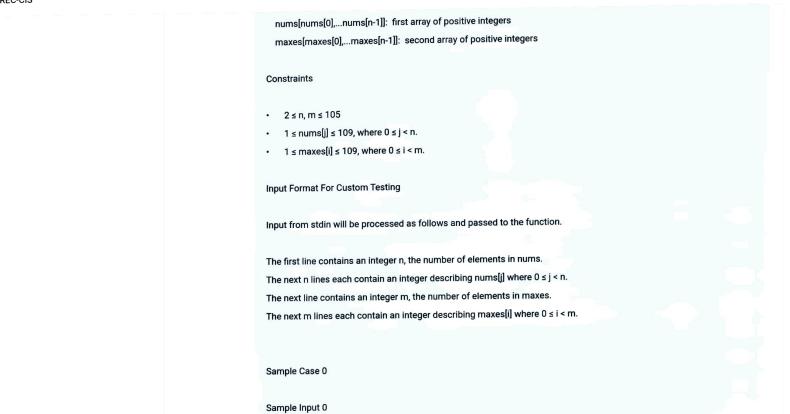
REC-CIS Answer: (penalty regime. 0 %) #include<stdio.h> int main() 2 3 ₩ int t; scanf("%d",&t); while(t--) int n,c=0; scanf("%d",&n); 10 for(int i=0;i<=n;i++) 11 ₹ 12 if(i%2!=0) 13 c=c+i; 14 15 printf("%d\n",c); 16 17 return 0; 18 } Input Expected Got 10 1296 1296 🗸 71 2500 2500 100 1849 1849

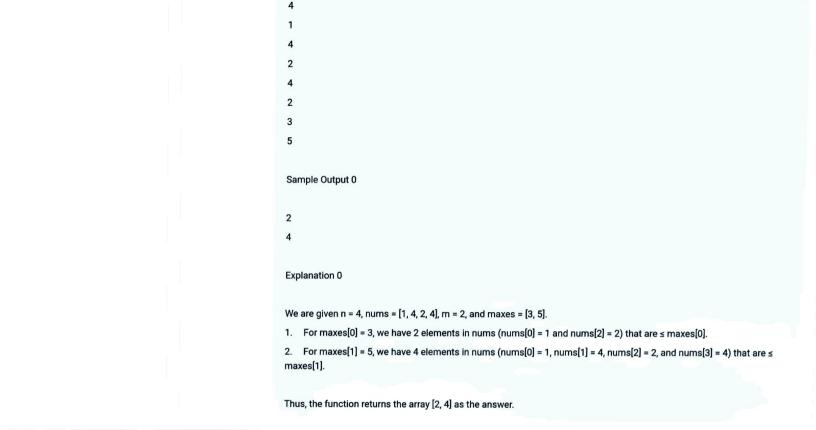




Passed all tests! 🗸

Question 3	The number of goals achieved by two football teams in matches in a league is given in the form of two lists. Consider:
Correct	
Marked out of 7.00	Football team A, has played three matches, and has scored { 1 , 2 , 3 } goals in each match respectively.
▼ Flag question	 Football team B, has played two matches, and has scored { 2, 4 } goals in each match respectively.
	 Your task is to compute, for each match of team B, the total number of matches of team A, where team A has scored less than or equal to the number of goals scored by team B in that match.
	In the above case:
	• For 2 goals scored by team B in its first match, team A has 2 matches with scores 1 and 2.
	• For 4 goals scored by team B in its second match, team A has 3 matches with scores 1, 2 and 3.
	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[i] representing the total number of elements nums[j] satisfying nums[j] \leq maxes[i] where $0 \leq j < n$ and $0 \leq i < m$, 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
	Constraints
	• 2 ≤ n, m ≤ 105





Sample Input 1

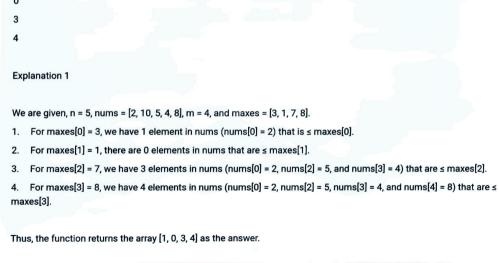
5
2
10

5
4
8
4
3
1
7
8

Sample Output 1

Explanation 1

0 3 4



Sample Output 1

```
Answer: (penalty regime: 0 %)
      #include<stdio.h>
      int main()
   3 ₹
   4
          int s1,s2,ans;
          scanf("%d",&s1);
          int ta[s1];
          for(int i=0;i<s1;i++)
   7
          scanf("%d",&ta[i]);
   8
          scanf("%d", &s2);
   9
  10
          int tb[s2];
  11
          for(int i=0;i<s2;i++)
  12
          scanf("%d",&tb[i]);
          for(int j=0;j<s2;j++)</pre>
  13
  14 ▼
  15
              ans=0;
  16
              for(int i=0;i<s1;i++)
  17 ▼
  18
                  if(tb[j]>=ta[i])
  19
                  ans++;
  20
  21
              printf("%d\n",ans);
  22
  23
          return 0;
  24 }
```



	Input	Expected	Got		
~	4 1 4 2 4 2 3 5	2 4	2 4	~	
~	5 2 10 5 4 8 4 3 1 7 8	1 0 3 4	1 0 3 4	~	

nish review