REC-CIS

Quiz navigation

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GE23131-Programming Using C-2024

Question 1

Marked out of

Correct

3.00

question Status Finished

Duration 4 days 19 hours

Input Format

Output format

Example

Input:

3135

Output:

1

4

1

1

99

0

Input:

3135

Output:

3

4

5 6

7 8

9

10 11

12

13

14

15 16

17

18 19 20

21

22 23

24 }

Input

3 1 3 5

3 1 3 5

Passed all tests! <

you by the locked stub code in the editor.

The program takes an array of integers as a parameter.

assembling it into an array of integers (arr), and calling calculate(arr).

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.

99

Input Format

number of days).

Constraints

 $1 \le T \le 2 \times 105$

 $1 \le N \le 2 \times 106$

Output Format

Sample Input 0

Sample Output 0

3

1

2

3

4

Explanation

Test Case 0: N = 1

Test Case 1: N = 2

Test Case 2: N = 3

chocolate. Thus, we print 1 on a new line.

of 4 chocolates. Thus, we print 4 on a new line.

Answer: (penalty regime: 0 %)

int t;

2 v int main(){

3

4 5 🔻

6

7

8

9

10 11 12 #include<stdio.h>

scanf("%d",&t);

int n,c=0;

scanf("%d",&n);

}printf("%d\n",c);

for(int i =0;i<=n;i++){</pre>

if(i%2!=0)c=c+i;

while(t--){

Input Expected Got

1

1 4

1296

2500

1849

729

400

1521

25

25

49

2401

✓

1

1296

2500

1849

729

400

1521

2401

25

25

49

10

71 100

86 54

40

77

9

13

98

Question **3**

Marked out of

Correct

7.00

question

Passed all tests! <

on a new line.

 $1 \le x \le N \le Y$

Answer: (penalty regime: 0 %)

2 v int main(){

#include<stdio.h>

scanf("%d",&t);

int n;

int a[n];

scanf("%d",&n);

scanf("%d",&k);

if(flag)break;}

Expected Got

printf("%d\n",flag);

1

0

✓

/

int flag=0;

for(int i=0;i<n;i++){</pre>

for(int i=0;i<n;i++){</pre>

for(int j=i+1;j<n;j++){</pre>

if(a[i]-a[j]==k||a[j]-a[i]==k){flag=1;brea

scanf("%d",&a[i]);

while(t--){

}

int k;

int t;

Started Monday, 23 December 2024, 5:33 PM

Completed Wednesday, 18 December 2024, 9:36 PM

2. N, followed by N integers of the array

Print 1 if such a pair exists and 0 if it doesn't.

3. The non-negative integer k

Given an array A of sorted integers and another non negative integer k, find if

there exists 2 indices i and j such that A[i] - A[j] = k, i!=j.

1. First line is number of test cases T. Following T lines contain:

Question **2** Correct Marked out of 5.00 question

scores 1 and 2. the given order. Constraints Sample Case 0 Sample Input 0 Explanation 0 Sample Case 1 Sample Input 1 2 10 **Explanation 1** maxes[0]. Answer: (penalty regime: 0 %) #include<stdio.h> 2 v int main(){ 3

goals in each match respectively. each match respectively. of goals scored by team B in that match. In the above case: with scores 1, 2 and 3. Hence, the answer: {2, 3}. It has the following: $2 \le n, m \le 105$ $1 \le \text{nums}[j] \le 109$, where $0 \le j < n$. $1 \le \text{maxes}[i] \le 109$, where $0 \le i < m$. Input Format For Custom Testing Sample Output 0 2) that are \leq maxes[0]. Sample Output 1 and nums[3] = 4) that are \leq maxes[2].

int s1,s2,ans;

int ta[s1];

int tb[s2];

{

7

9

10

11

12 13

15 •

16

17

18 19 20 scanf("%d",&s1);

scanf("%d",&s2);

ans=<mark>0;</mark>

Input Expected Got

2

1

0

10

5

8

Passed all tests! <

✓

for(int i =0 ; i<s1;i++)</pre>

for(int i= 0;i<s2;i++)</pre>

for(int j= 0 ; j < s2; j++)</pre>

ans++;

2

4

1

0

3

4

/

/

Finish review

for(int i=0;i<s1;i++){</pre>

}printf("%d\n",ans);

if(tb[j]>=ta[i])

scanf("%d",&ta[i]);

scanf("%d",&tb[i]);

nums[2] = 2, and nums[3] = 4) that are $\leq maxes[1]$.

nums[nums[0],...nums[n-1]]: first array of positive integers Thus, the function returns the array [2, 4] as the answer. We are given, n = 5, nums = [2, 10, 5, 4, 8], m = 4, and maxes = [3, 1, 7, 8]. For maxes[0] = 3, we have 1 element in nums (nums[0] = 2) that is \leq For maxes[1] = 1, there are 0 elements in nums that are \leq maxes[1]. For maxes[2] = 7, we have 3 elements in nums (nums[0] = 2, nums[2] = 5,4. For maxes[3] = 8, we have 4 elements in nums (nums[0] = 2, nums[2] = 5, nums[3] = 4, and nums[4] = 8) that are \leq maxes[3]. Thus, the function returns the array [1, 0, 3, 4] as the answer.

The number of goals achieved 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 } Football team B, has played two matches, and has scored { 2, 4 } goals in 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 For 2 goals scored by team B in its first match, team A has 2 matches with For 4 goals scored by team B in its second match, team A has 3 matches 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 maxes[maxes[0],...maxes[n-1]]: second array of positive integers 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[j] where $0 \le j < n$. 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 $0 \le i < m$. We are given n = 4, nums = [1, 4, 2, 4], m = 2, and maxes = [3, 5]. 1. For maxes[0] = 3, we have 2 elements in nums (nums[0] = 1 and nums[2] = 1)2. For maxes[1] = 5, we have 4 elements in nums (nums[0] = 1, nums[1] = 4,

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

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 The locked code in the editor handles reading the following input from stdin, 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