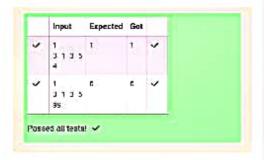
```
Status Finished
           Started Monday, 23 December 2024, 5:33 PM
       Completed Tuesday, 17 December 2024, 8:35 AM
          Duration 5 days 8 hours
Cuestion 1
                  Given an array A of sorted integers and another non negative
Cone I
                  Integeris, find if there exists 2 indices I and J such that Alj.)
                 A[j] = k, i != j.
Marked out of
3.000
f Helpqueeling
                  Input Format
                  1, First line is number of test cases T. Following T lines.
                  contain
                  Z. N, followed by N integers of the array
                  3. The non-negative integer k
                  Output format
                  Print 1 if such a pair exists and 0 if it doesn't.
                  Example
                  Input:
                 ্ৰ
                  3135
                 4
                  Output:
                  ٦
                  Input:
                  ٦
                  3135
                  99
                 (Output:
                 ា
                  Answer: (ponally regime; 0.3).
                    Wincludesstdio.h>
```



Question 2 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.

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, I (the number of days).

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

2 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.

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 %)

```
3 4 5 5 6 7 8 5 9 10 11 12 13 14 15 16 |}
             printf("%d\n",C);
```

	Input	Expected	Got	
~	3	1	1	~
	1	1	1	
	2	4	4	
~	10	1296	1296	~
	71	2500	2500	
	100	1849	1849	
	86	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	77 25 25	25	
	9	49	49	
	13	2401	2401	
	98			

Oversion 3
The number of goals achieved by two football teams in matches in a league is given in the form of two lists.

Consider:
Consider:
Filagoustion

Consider:
C Football team A, has played three matches, and has scored (1, 2, 3) goals is each match respectively.
Football team B, has played two matches, and has scored (2, 4) goals are each match respectively.
For task is to compate, for each match of team B, the state number of matches of team A whate some team A has scored less than or equal to the number of goals scored by team B in the matches with scored and by the solve case.

For 2 goals scored by team B in its first match, team A has 2 matches with scored and c2.
For 4 goals scored by team B in its first match, team A has 2 matches with scored and c2. 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] smaxes[j] where  $0 \le j \le n$  and  $0 \le i \le m$ , 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
 1 ≤ nums(i) ≤ 109, where 0 ≤ j < n.
 1 ≤ maxes(i) ≤ 109, where 0 ≤ i < m. Input Format For Custom Testing 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 sums. The ment lines each contain an integer describing nums[i] where 0 s | s n.

The ment lines each contain an integer describing nums[i] where 0 s | s n.

The ment lines each contain an integer n, the number of elements in masses.

The ment lines each contain an integer describing masses[i] where 0 s | s n. Sample Case 0 Sample Input 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 s 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). We are given, n = 5, nums = [2, 10, 5, 4, 8], m = 4, and maxes = [3, 1, 7, 8]. \* [3, 1, 7, 8].

1. For maxes[0] = 3, we have 1 element in nums (nums[0] = 2) that is a maxes[0].

2. For maxes[1] = 1, there are 0 elements in nums that are s maxes[1]. s maxes  $\mu$ . 3. For maxes |2| = 7, we have 3 elements in nums (nums[0] = 2, nums[2] = 5, and nums[3] = 4) that are s maxes[2]. 4. For maxes[3] = 8, we have 4 elements in nums (nums[0] = 2, nums[3] = 5, nums[3] = 8, and nums[4] = 8) that are s maxes[3].