

```
#include<stdio.h>
    int main()
 3
 4
         int t;
 5
         scanf("%d",&t);
         while(t--){
 6 ₹
             int n;
             scanf("%d",&n);
 8
 9
             int a[n];
             for(int i=0;i<n;i++){
10 *
                 scanf("%d",&a[i]);
11
12
13
             int k;
             scanf("%d",&k);
14
             int flag=0;
15
             for(int i=0;i<n;i++){</pre>
16 *
17 v
                 for(int j=i+1; j<n; j++){
                      if(a[i]-a[j]==k || a[j]-a[i]==k){flag=1;break;}
18
19
             if(flag) break;}
20
             printf("%d\n",flag);
21
22
23
24
```

	Input	Expected	Got	
~	1 3 1 3 5 4	1	1	~
~	1 3 1 3 5 99	0	0	~

Passed all tests! <

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, Ni (the number of days).

Constraints

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

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

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

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.



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

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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 } goals in each match respectively.
- 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}.

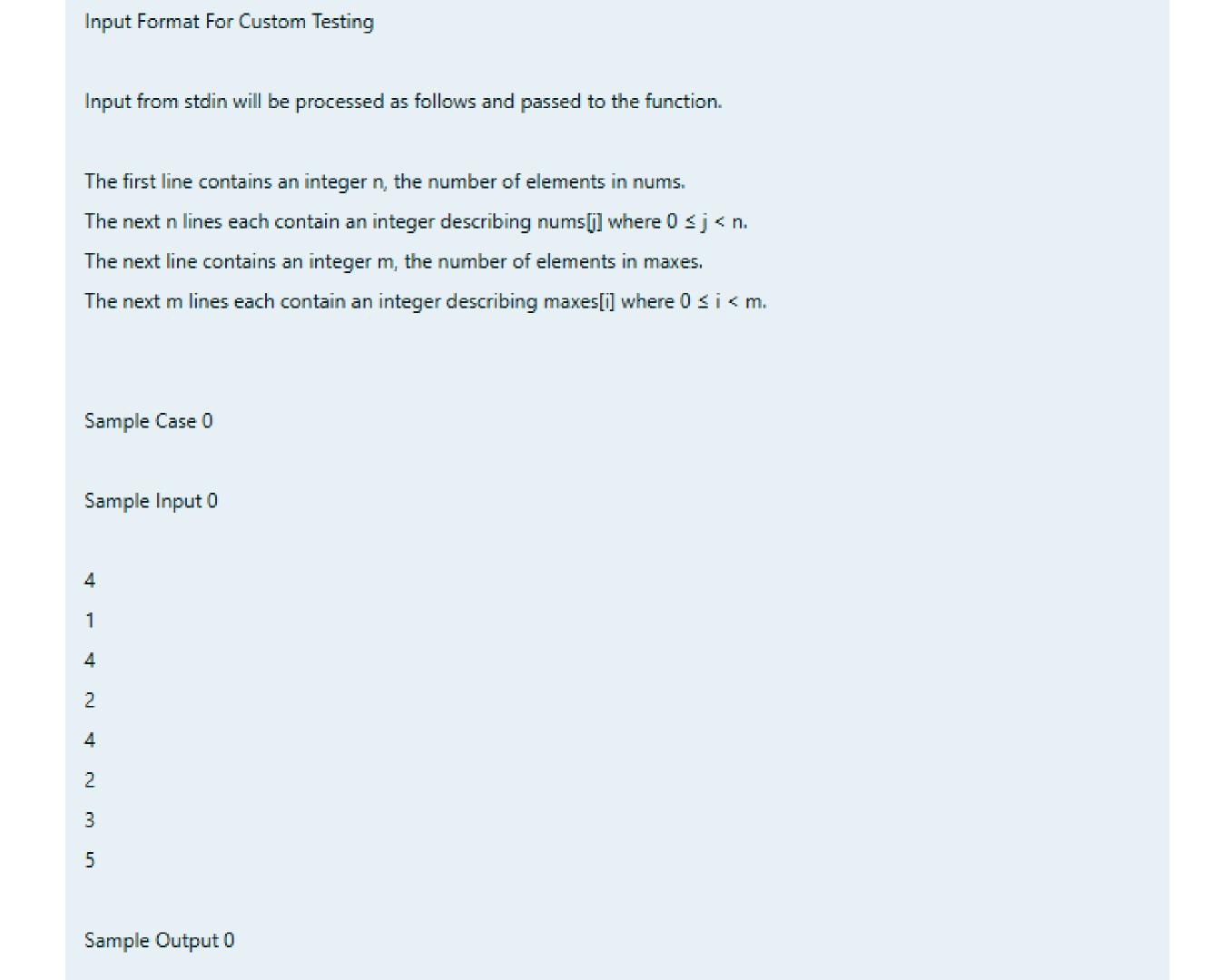
Complete the code in the editor below. The program must return an array of m positive integers, one for each maxes[i] representing the total number of elements nums[j] satisfying nums[j] \leq maxes[i] where $0 \leq j < n$ and $0 \leq i < m$, in the given order.

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
- 1 ≤ nums[j] ≤ 109, where 0 ≤ j < n.
- 1 ≤ maxes[i] ≤ 109, where 0 ≤ i < m.



```
2
Explanation 0
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] = 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 ≤ maxes[1].
Thus, the function returns the array [2, 4] as the answer.
Sample Case 1
Sample Input 1
5
2
10
```

Sample Output 1

1

0

3

4

Explanation 1

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 ≤ maxes[0].
- For maxes[1] = 1, there are 0 elements in nums that are ≤ maxes[1].
- 3. For maxes[2] = 7, we have 3 elements in nums (nums[0] = 2, nums[2] = 5, and nums[3] = 4) that are \leq maxes[2].
- 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.

```
#include<stdio.h>
 2
    int main()
 3 ₹
 4
         int s1,s2,ans;
 5
         scanf("%d", &s1);
         int ta[s1];
 6
         for(int i=0;i<s1;i++)</pre>
 7
 8
         scanf("%d",&ta[i]);
 9
         scanf("%d", &s2);
         int tb[s2];
10
         for(int i=0;i<s2;i++)
11
         scanf("%d",&tb[i]);
12
13
         for (int j=0;j<s2;j++)
14 *
15
             ans=0;
             for(int i=0;i<s1;i++){
16 *
                 if(tb[j]>=ta[i])
17
18
                 ans++;
19
             }printf("%d\n",ans);
20
21
```

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

Passed all tests! 🗸