Question 1 Correct	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.	
Marked out of 3.00	Input Format	
F Flag question	1. First line is number of test cases T. Following T lines contain:	
	2. 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:	
	1	
	3135	
	4	
	Output:	
	1	
		tivati to Seti

3135
4
Output:
d .
Input:
1
3135
99
Output:
0
Answer: (penalty regime: 0 %)

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
   int main()
3 . {
 4
        int T;
        scanf("%d",&T);
5
        while(T--)
6
7.
8
             int N;
9
             scanf("%d ",&N);
10
             int A[N];
11
             for(int i=0;i<N;i++)
12 .
13
                scanf("%d",&A[i]);
14
15
            int K;
16
             scanf("%d",&K);
17
             int found=0;
18
19
             for(int i=0;i<N;i++)
20 -
21
                for(int j=i+1; j<N;j++)</pre>
22 .
23
                    if(A[i]-A[j]==K||A[j]-A[i]==K)
24 .
25
                        found=1;
26
                        break;
27
28
29
                if(found)break;
30
       printf("%d\n",found);
31
32
33
```

	Input	Expected	Got	
~	1 3 1 3 5 4	1	1	~
~	1 3 1 3 5 99	e	8	~

Passed all tests! 🗸

Correct days when x is even, Sam will not purchase any chocolates. Marked out of 5.00 Complete the code in the editor so that for each day Ni (where 1 s x s N s Y) in array arr, the number of chocolates Sam purchased (during days 1 through N) is printed on a F Rag question

new line. This is a function-only challenge, so input is handled for you by the locked stub code in the editor.

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

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 5 T 5 2 × 105 1 s N s 2 x 106

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Output Format

Sample Input 0

3

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.

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```
2
3
Sample Output 0
```

4

Test Case 0: N = 1

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.

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

Explanation

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.

Answer: (penalty regime: 0 %)

Test Case 2: N = 3

Answer: (penalty regime: 0 %)

```
1 || #includecstdio.h>
   int main()
 2
 3 + {
        int T,N,total_chocolate,1;
 4
        scanf("%d",&T);
 5
 6
        for(int j=0;j<T;j++)
 7 .
            scanf("%d",&N);
 8
 9
            total_chocolate=0;
10
            for(1-1;1<-N;1++)
11 .
12
                1+(1%2--1)
13 .
14
                    total_chocolate+=1;
15
16
17
            printf("%d\n",total_chocolate);
18
19 }
```

	Input	Expected	Got	
,	3	1	1	V
	1	1	1	
	2	4	4	
	1			
~	10	1296	1296	~
	71	2500	2500	
	100	1849	1849	
	26	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	25	25	
	9	49	49	
	13	2401	2401	
	98			

Question 3 Correct

7.00

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Marked out of

team B in that match. In the above case:

Hence, the answer: (2, 3).

It has the following:

. 2 s n, m s 105

Constraints

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 8. 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

. 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.

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]

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nums[nums[0]...nums[n-1]]: first array of positive integers maxes[maxes[0],...maxes[n-1]]: second array of positive integers

satisfying nums[j] \leq maxes[i] where $0 \leq j < n$ and $0 \leq i < m$, in the given order.

1 s nums[j] s 109, where 0 s 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 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 $0 \le i < m$.
Sample Case 0
Sample Input 0
4
1
4
2
4
2
3
5
Sample Output 0
2
4
Explanation 0

```
We are given n = 4, nums = [1, 4, 2, 4], m = 2, and maxes = [3, 5].

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

    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.
Sample Case 1
Sample Input 1
5
2
10
5
8
3
1
7
8
Sample Output 1
1
0
3
Explanation 1
We are given, n = 5, nums = [2, 10, 5, 4, 8], m = 4, and maxes = [3, 1, 7, 8].
1. For maxes[0] = 3, we have 1 element in nums (nums[0] = 2) that is ≤ maxes[0].
2. 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 ≤ maxes[2].

    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 ≤ maxes[3].

Thus, the function returns the array [1, 0, 3, 4] as the answer.
Answer: (penalty regime: 0 %)
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2
 3
   int main()
4 . {
 5
        int n,m,i,j,count;
        scanf("%d",&n);
 6
 7
        int num[n];
 8
        for(i=0;i<n;i++)
9 .
            scanf("%d",&num[i]);
10
11
12
        scanf("%d",&m);
13
        int maxes[m];
14
        for(1=0;1<m;1++)
15 .
16
            scanf("%d",&maxes[i]);
17
18
        for(i=0;i<m;i++)
19 .
28
            count=0;
21
            for(j=0;j<n;j++)
22 .
23
                if(num[j]<=maxes[i])
24 .
25
                    count++;
26
27
28
            printf("%d\n",count);
29
30
31 }
```

	Input	Expected	Got	
~	4	2	2	~
	1	4	4	
	4			
	2			
	4			
	2			
	3			
	5			
~	5	1	1	~
	2	9	9	
	10	3	3	
	5	4	4	
	4			
	8			
	4			
	3			
	1			
	7			
	8			