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.
Input Format
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:

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2 + int main(){
 3 int t;
 4 | scanf("%d",&t);
 5 + while(t--){
   int n;
 7 scanf("%d",&n);
 8 int a[n];
 9 - for(int i=0;i<n;i++){
    scanf("%d",&a[i]);
11
12 int k;
13 | scanf("%d",&k);
14 int flag=0;
15 - for(int i=0;i<n;i++){
16 * for (int j=i+1;j<n;j++){
17 - if(a[i] -a[j]==k || a[j] -a[i]==k) {
18 flag=1;
19 break;
20
21
   if(flag)
22
23
    break;
24
   printf("%d\n",flag);
25
26
27
```



Passed all tests! <



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Input Format
The program takes an array of int
The locked code in the editor han calculate(arr).
The first line of input contains an integer, Ni (the number of days).
Constraints
1 ≤ T ≤ 2 × 105
1 ≤ N ≤ 2 × 106
1 ≤ x ≤ N ≤ Y

Question 2

Marked out of 5.00

P Flag question

Correct

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.

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

m takes an array of integers as a parameter.

code in the editor handles reading the following input from stdin, assembling it into an array of integers (arr), and calling TT).

e 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

```
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.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2 . int main(){
        int t:
 3
        scanf("%d",&t);
 4
        while(t--){
 5 +
 6
           int n,c=0;
           scanf("%d",&n);
 7
           for(int i=0;i<=n;i++){
 8 +
                if(1%2!=0)
 9
10
                C=C+1;
11
            printf("%d\n",c);
12
13
14 }
```

	Input	Expected	Got	
1	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			

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

```
    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.

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```
Answer: (penalty regime: 0 %)
       #includecstdio.h>
       int main()
   2
   3 . (
            int s1.s2.ans:
   5
            scanf("%d", &s1);
            int tals11:
   6
            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++)
           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 .
  17
               if(tb[j]>=ta[i])
  18
               ans++;
            }printf("%d\n",ans);
  19
  20
  21
```

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

Passed all tests! 🗸