

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that  $A[j] - A[i] = k$ ,  $i \neq j$ .

Input Format:

First Line n - Number of elements in an array

Next n Lines - N elements in the array

k - Non - Negative Integer

Output Format:

1 - If pair exists

0 - If no pair exists

Explanation for the given Sample Testcase:

YES as  $5 - 1 = 4$

So Return 1.

For example:

Input	Result
3	1
1 3 5	
4	

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int n,x,y=0;
5     scanf("%d",&n);
6     int a[n];
7     for(int i=0;i<n;i++)
8     {
9         scanf("%d",&a[i]);
10    }
11    scanf("%d",&x);
12    for(int i=0;i<n;i++)
13    {
14        for(int j=1;j<n;j++)
15        {
16            if(((a[i]-a[j]==x)|| (a[j]-a[i]==x))&&(i!=j))
17            {
18                y=1;
19                break;
20            }
21        }
22    }
23    printf("%d",y);
24
25
26 }
```

	Input	Expected	Got	
✓	3 1 3 5 4	1	1	✓
✓	10 1 4 6 8 12 14 15 20 21 25 1	1	1	✓
✓	10 1 2 3 5 11 14 16 24 28 29 0	0	0	✓
✓	10 0 2 3 7 13 14 15 20 24 25 10	1	1	✓

Passed all tests! ✓

Correct