

<https://course.acciojob.com/idle?question=803b4abc-3829-4b3b-9da b-74da720ff06a>

● MEDIUM

● Max Score: 40 Points

## Problem With Given Difference

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Given an one-dimensional unsorted array A containing N integers.

You are also given an integer B. Find if there exists a pair of elements in the array whose difference is B.

Print 1 if any such pair exists else print 0.

### Input Format

First line contains n (size of the array)

Second line contains n elements of the array

Third line contains integer B.

### Output Format

Print 1 if any such pair exists else print 0.

### Example 1

Input

```
6
5 10 3 2 50 80
78
```

Output

```
1
```

Explanation

Pair (80, 2) gives a difference of 78.

## Example 2

Input

```
2
20 -10
30
```

Output

```
1
```

Explanation

Pair (20, -10) gives a difference of 30 i.e  $20 - (-10) \Rightarrow 20 + 10 \Rightarrow 30$

## Constraints

```
1 <= N <= 100000
-10000 <= A[i] <= 10000
-20000 <= B <= 20000
```

### Topic Tags

- Hashing
- Arrays

# My code

```
// n java
```

```

import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int a[]=new int[n];
        for(int i=0;i<n;i++)
            a[i]=s.nextInt();
        int b=s.nextInt();
        for(int i=0;i<n-1;i++)
        {
            for(int j=i+1;j<n;j++)
            {
                if((a[i]-a[j])==b) {System.out.print("1");return;}
                if((a[j]-a[i])==b) {System.out.print("1");return;}
            }
        }
        System.out.print("0");
    }
}

```