Binary search in Java → Find a fixed point in an array

📊 Hard   🕐 9 minutes   ❓   Share:

Code Challenge — Write a program

Write a program to check a sorted array of various ints contains a fixed point. The array is sorted in the ascending order.

A fixed point is an index **i** such **A[i] = i**.

The integers in the array can be negative. The input array doesn't contain duplicates.

Use binary search to solve the problem.

Input data format

The first line contains a number of elements in the array, the second one consists of the elements.

Output data format

The program should output **"true"** or **"false"**.

Sample Input 1:
```
5
-8 -2 0 3 9
```

Sample Output 1:
```
true
```

Sample Input 2:
```
6
4 7 9 12 14 19
```

Sample Output 2:
```
false
```

Sample Input 3:
```
4
-2 1 3 5
```

Sample Output 3:
```
true
```

Code Editor   IDE

⬛ Solve in IDE

✔ **IDE is responding** IntelliJ IDEA 2019.3
✔ **Plugin is responding** 3.2-2019.3-3686

Skip problem

Time limit: 1 seconds   Memory limit: 256 MB