

<https://course.acciojob.com/idle?question=66bae3d7-33b1-4ceb-b027-e273cd56f1ff>

● EASY

● Max Score: 30 Points

Largest Number At Least Twice of Others

You are given an integer array `nums` of size `n` where the largest integer is unique. Your task is to determine whether the largest element in the array is at least twice as much as every other number in the array. If it is, print the index of the largest element, or print `-1` otherwise.

Input Format

The first line of the input contains the number `n`(length of the array),

The next line contains `n` space separated integers denoting the elements of the array.

Output Format

Print the index of the element if it satisfies the condition else print `-1`

Example 1

Input

```
4
3 6 1 0
```

Output

```
1
```

Explanation

Here, 6 is the largest integer, and for every other number in the array x , 6 is more than twice as big as x . The index of value 6 is 1, so we return 1

Example 2

Input

```
4
1 2 3 4
```

Output

```
-1
```

Explanation

4 isn't at least as big as twice the value of 3, so we return -1.

Constraints

```
1 <= n <= 50
```

```
0 <= nums[i] <= 100
```

The largest element in `nums` is unique.

Topic Tags

- Arrays

My code

```
// in java
```

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

//test case wrong

```
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 arr[]=new int[n];
        int
        for(int i=0;i<n;i++)
        {
            arr[i]=s.nextInt();

        }
        Arrays.sort(arr);
        arr[n-2]=arr[n-2]+arr[n-2];
        if(arr[n-1]>=arr[n-2])
            System.out.print("1");
        else System.out.print("-1");
        /*
        long[] arr=new long[n];
        int value=0;
```

```

for(int i=0;i<n;i++){
    arr[i]=s.nextInt();
}
long max=arr[0];
for(int i=0;i<n;i++){
    if(1<=n && 0<=arr[i]&&arr[i]<=100){
        if(max<arr[i]){
            max=arr[i];
        }
    }
}

for(int i=0;i<n;i++){
    if(max>=2*arr[i]){
        value++;
    }
}
if(n-1<=value){
    for(int i=0;i<n;i++){
        if(max==arr[i]){
            System.out.println(i);
        }
    }
}
else {
    System.out.println(-1);
}*/
}
}

```