https://course.acciojob.com/idle?question=20fa7e46-1f7f-438a-8744-ec3d92f284d6

- EASY
- Max Score: 30 Points

Search in bitonic array

Given a zero based Bitonic array `arr` of size `N`. You need to find the index of the `target` value in the array `arr`, if it is present else -1.

Note

A Bitonic Sequence is a sequence of numbers which is first strictly increasing then after a point strictly decreasing.

Input Format

The first line of input contains a single integer representing `N`.

The second line of input contains `N` space seperated integer representing array element.

The third line of input contains the `target`, element to be searched in the array.

Output Format

Return the positon of `target` value in the array if present else -1.

Example 1

Input

```
7
-3 9 18 20 17 5 1
20
```

Output:

```
3
```

Explanation:

Element 20 is found at index 3.

Example 2

Input

```
3
3 4 1
5
```

Output:

```
-1
```

Explanation:

Element 5 can not be found in the array so we output -1.

Constraints

```
1 <= N <= 10^5
```

```
-10^6 <= arr[i] <= 10^6
```

Topic Tags

- Binary Search
- Arrays

My code

// in 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 arr[]=new int[n];
		for(int i=0;i<n;i++)
			arr[i]=s.nextInt();
		    int target=s.nextInt();
		for(int i=0;i<n;i++)
			if(arr[i]==target)
			{
				System.out.print(i);
				return;
			}
		  System.out.print("-1");
	}
}
```