- **EASY**

- **Max Score: 30 Points**

Array Problem 6

Write a program to find out the shortest distance between two even positive integers in an array `arr` and print the distance. If there is one or zero even positive integer in the array then return -1.

Note that if the index of one even positive integer is `i` and the index of another even positive integer is `j` then their distance will be `|i-j|`.

Input Format

First line contains `n` which is the size of the array.

Second line contains `n` elements of the array.

Output Format

Return the shortest distance if more than one even positive integer is present or return -1 if only one or no even positive integer is present.

Example 1

Input

```
2
1 2
```

Output

```
-1
```

Explanation

There is only 1 even positive integer in the array. So the output will be -1.

Example 2

Input

```
5
2 4 1 6 7
```

Output

```
1
```

Explantion

Distance between 2 and 4 is 1,
distance between 2 and 6 is 3,
distance between 4 and 6 is 2.
So the shortest distance is 1.

Constraints

$0 <= n <= 10^5$

$-10^9 <= arr[i] <= 10^9$

Topic Tags

- Math
- Loops
- Basics
- Arrays

My code

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



//test case issuse



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 f=0,ind=-1,min=n;
      for(int i=0;i<n;i++)
            {
        if(arr[i]%2==1 || arr[i]<=0) continue;
         else
         {
                    if(f==0)
                    {
```

```java
                        f=1;
                        ind=i;
                         continue;
                    }
            int t=i-ind;
              if(t<min){min=t;}
                    ind=i;
          }


       }
     if(min==n)System.out.print("-1");
    else System.out.println(min)  ;




  }
}
```