

<https://course.acciojob.com/idle?question=cea2e14e-f75b-4b4f-9272-d15f10bf1d9a>

- EASY
- Max Score: 30 Points

## Odd Even Problem

Given a string  $S$  of lowercase english characters, find out whether the summation of  $X$  and  $Y$  is even or odd, where  $X$  is the count of characters which occupy even positions in english alphabets ("a" occupies position 1 , "b" occupies position 2 and so on "z" occupies position 26) and have positive even frequency, and  $Y$  is the count of characters which occupy odd positions in english alphabets and have positive odd frequency. Note: Positive means greater than zero.

### Input

First line contains single string denoting  $S$

### Output

Print "ODD" (Without quotes) if  $X + Y$  is odd Print "EVEN" (Without quotes) if  $X + Y$  is even

Constraints:

$1 \leq \text{Length of String} \leq 100000$

Sample Input:

abbbcc

Sample Output:

ODD

Topic Tags

- Hashing
- Strings

# 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 sc =new Scanner(System.in);
        String s=sc.next();
        int n=s.length();
        int even=0;
        int odd=0;
        int freq[]=new int[27];
        for(int i=0;i<n;i++){
            int x=s.charAt(i)-'a'+1;
            freq[x]++;
        }
        // int even=0;
        // int odd=0;
```

```

for(int i=1;i<27;i++){
    if((i%2)==0 && freq[i]>0 && (freq[i]%2)==0){
        even++;
    }
    if((i%2)==1 && freq[i]>0 && (freq[i]%2)==1){
        odd++;
    }
}
int x=even+odd;

if(x%2==0){
    System.out.print("EVEN");
}
else{
    System.out.print("ODD");
}
}

```

```

// 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);
//     String str = s.next();
//     int x=0,y=0;
//     int sum=0;
//     for (int i=0;i<str.length();i++)
//     {
//         char ch=str.charAt(i);
//         int num=ch-'a'+1;
//         if(num%2==0)
//             x++;
//         else y++;

//     }//System.out.print(sum);
//     sum=x+y;
// if(sum%2==0)System.out.print("EVEN");
//     else System.out.print("ODD");
// }
// }
```