Question 1: Backspace String Compare

Given two strings S and T, return if they are equal when both are typed into empty text editors. # means a backspace character.

Sample Input:

```
S = "ab#c", T = "ad#c"
```

Sample Output:

True

Sample Input:

```
S = "ab##", T = "c#d#"
```

Sample Output:

True

Sample Input:

$$S = "a#c", T = "b"$$

Sample Output:

False

Question 2: First Unique Character in a String

Given a string, find the first non-repeating character in it and return it's index. If it doesn't exist, return -1.

Sample Input:

s = "liveshow"

Sample Output:

0

Sample Input:

s = "loveliveshow"

Sample Output:

5

Question 3: Longest substring without repeating characters

Given a string, find the length of the **longest substring** without repeating characters.

Sample Input:	
abcabcbb	
Sample Output:	
3	
Sample Input:	
bbbbb	
Sample Output:	
1	
Sample Input:	
рwwkew	
Sample Output:	
3	

Question 4: Even or Odd String?

A string is a palindrome if and only if it reads the same forwards and backward	Α	string	is a	palind	rome if	and	only	∕ if it	reads	the s	same	forwards	and	backward	ds.
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A substring of a string ${\bf s}$ is a nonempty sequence of consecutive characters from ${\bf s}$

Define a string to be *odd* if and only if all substrings of the string that are palindromes have odd length.

Given a string **s**, determine if it is *odd*.

Print on a single line, if the string is odd, Odd; if not, Even.

Sample Input:
Amanaplanacanalpanama
Sample Output:
Odd
Sample Input:
Madamimadam
Sample Output:
Odd
Sample Input:
Sample Input: Annamyfriend
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Question 5: Permutation in String

Given two strings s1 and s2, write a function to return true if s2 contains the permutation of s1. In other words, one of the first string's permutations is the substring of the second string.

Sample Input:

```
s1 = "ab" s2 = "eidbaooo"
```

Sample Output:

True

Sample Input:

```
s1= "ab" s2 = "eidboaoo"
```

Sample Output:

False