


Ques

Given a string, Find the minimum and maximum distance b/w two vowels.

⇒

Input string ⇒ a b e c e f g a d e

different
b/w
indices

min distance = 2 [b/w index (1 and 3) or (2 and 4)]

max distance = 9 [b/w index 0 and 9]

0 1 2 3 4 5 6 7 8 9 10
a b e c e f g a d e e

ch =

first_occurrence = 0

last_occurrence = ~~0 2 4~~

10-9
⇒ 1

i = 9 10 → 9

last = ~~-1 0 2 4 7~~ = 9

min-distance = ~~2 2 2~~ 1

```
int n=str.length();
int first_occurrence=-1;
int last_occurrence=-1;

int last=-1;
int min_distance=n+1;

for(int i=0; i<n; i++){
    char ch=str.charAt(i);

    if(isVowel(ch)==true){
        if(first_occurrence==-1){ // i have not yet discovered any vowel
            first_occurrence=i;
        }

        last_occurrence=i;

        // finding min distance
        if(last!=-1){
            last=i;
        } else {
            int distance = i - last;
            min_distance=Math.min(min_distance,distance);
            last=i;
        }
    }
}
```

Ques

Given a string of numeric characters. Convert it to integer data type from string data type.

Input ⇒ "134"

output → 134

function

int val = Integer.parseInt(str);

↓
consisting of numbers

ex. str = "345";
int val = 345;

Ques Given a numeric string. Check if it is balanced.

Sum of first half is equal to second half

string str = "2433" → true
↓ ↓
6 6

str = "1234" → false
↓ ↓
3 7

str = "2457335"
↓ ↓
6 11

$n=7$

fh = 6 ≠ 11

sh = 11

```
public static boolean checkBalanced(String str){
    int n=str.length();
    int first_half=0;
    int second_half=0;

    if(n%2==0){
        // calculating first half
        for(int i=0; i<n/2; i++){
            char ch=str.charAt(i);

            int val=ch-'0';
            first_half=first_half+val;
        }

        // calculating second half
        for(int i=n/2; i<n; i++){
            char ch=str.charAt(i);

            int val=ch-'0';
            second_half=second_half+val;
        }
    } else {

    }

    if(first_half==second_half){
        return true;
    } else {
        return false;
    }
}
```

$$i = \left(\frac{n}{2} + 1\right)$$

$$\frac{7}{2} + 1$$

$$3 + 1 = 4$$

$$'a' = 0$$

$$'a' = 1$$

$$'8'$$

$$'0' = 0$$

$$'1' - '0' = 1$$

$$'0' \rightarrow 0$$

$$'1' \rightarrow 1$$

Ques

Given two strings. Check if sum of ascii values of both strings are equal or not.

→

str1 → "abcfe"



$$97+98+99+101+102$$

str2 → "bcdzhi"



$$98+99+100+50+104+105$$

0 1 2 3 4 5 6 7 8 9 10 11
z x v c b i y
ch = 'd'

hheell

z x v c b i y
↓ ↓ ↓ ↓ ↓ ↓ ↓
x x 1 1 1 x
x 2 3 1 1 x 2

29 0-1

```
void isCharOccurringInCharacterString(char str)
{
    int count = 0;
    for (int i = 0; i < strlen(str); i++)
    {
        int index = str[i] - 'a';
        char ch = str[i];
        if (ch == 'a')
        {
            count++;
        }
        else if (ch == 'b')
        {
            count++;
        }
        else if (ch == 'c')
        {
            count++;
        }
        else if (ch == 'd')
        {
            count++;
        }
        else if (ch == 'e')
        {
            count++;
        }
        else if (ch == 'f')
        {
            count++;
        }
        else if (ch == 'g')
        {
            count++;
        }
        else if (ch == 'h')
        {
            count++;
        }
        else if (ch == 'i')
        {
            count++;
        }
        else if (ch == 'j')
        {
            count++;
        }
        else if (ch == 'k')
        {
            count++;
        }
        else if (ch == 'l')
        {
            count++;
        }
        else if (ch == 'm')
        {
            count++;
        }
        else if (ch == 'n')
        {
            count++;
        }
        else if (ch == 'o')
        {
            count++;
        }
        else if (ch == 'p')
        {
            count++;
        }
        else if (ch == 'q')
        {
            count++;
        }
        else if (ch == 'r')
        {
            count++;
        }
        else if (ch == 's')
        {
            count++;
        }
        else if (ch == 't')
        {
            count++;
        }
        else if (ch == 'u')
        {
            count++;
        }
        else if (ch == 'v')
        {
            count++;
        }
        else if (ch == 'w')
        {
            count++;
        }
        else if (ch == 'x')
        {
            count++;
        }
        else if (ch == 'y')
        {
            count++;
        }
        else if (ch == 'z')
        {
            count++;
        }
    }
    return count;
}
```


