using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace codechal170216

{

class Program

{

static void Main(string[] args)

{

try

{

string s1 = "";

string s2 = "";

int f = 0;

int i;

int x = Convert.ToInt32(Console.ReadLine()); ;

string s = Console.ReadLine();

int l = s.Length;

for (i = 0; i < s.Length; ++i)

{

if ((s[i] >= 65 && s[i] <= 90) || (s[i] >= 97 && s[i] <= 122))

{

}

else

{

f = 1;

break;

}

}

if (f == 0)

{

for (i = 0; i < s.Length; ++i)

{

if (x > 0)

{

if (i < x)

s1 = s1 + s[i];

else

s2 = s2 + s[i];

}

else

{

if (i <= l - 1 + x)

s1 = s1 + s[i];

else

s2 = s2 + s[i];

}

}

s2 = s2 + s1;

Console.WriteLine("{0}", s2);

}

else

Console.WriteLine("Invalid Input");

}

catch (Exception e)

{

e.ToString();

Console.WriteLine("Invalid Input");

}

Console.ReadLine();

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace codechal170216

{

class Program

{

static void Main(string[] args)

{

string s = Console.ReadLine();

int i;

int c1 = 0;

int c2 = 0;

for (i = 0; i < s.Length; ++i)

{

if (s[i] >= 65 && s[i] <= 90)

c1++;

else if (s[i] >= 97 && s[i] <= 122)

c2++;

}

if(c1==0&&c2==0)

Console.WriteLine("Invalid Input");

else if(c1<c2)

Console.WriteLine(c1);

else

Console.WriteLine(c2);

Console.ReadLine();

}

}

}

Page of

**Mahirl and Pair Strings**

**Mahirl and Pair Strings**

Mahirl is very fond of Pair Strings. Mahirl calls a string S a Pair String if the string S is not empty and can be broken into two strings S1 and S2 such that S1 + S2 = S and S1 = S2.

Examples of pair strings are lala, didi, booboo ...

Write a program to find whether a given string is a Pair String or not.

**Input and Output Format :**

Input consists of a single string.

If the string consists of any character other than the lower case letters , print “Invalid Input”

If the string is a pair string, print “Pair String”.

If the string is not a pair string, print “Not A Pair String”

**Sample Input 1:**

didi

**Sample Output 1:**

Pair String

**Sample Input 2:**

ludo

**Sample Output 2:**

Not A Pair String

**Sample Input 3:**

Punitha&

**Sample Output 3:**

Invalid Input

Page of

**String Rotation**

**String Rotation**

Mahirl is very fond of strings and she loves playing around with strings.

Given a number x and a string, print the string rotated x times clockwise if x is positive and anti-clockwise otherwise.

**Input and Output Format :**

The first line of the input consists of an integer that corresponds to x.

The second line of the input consists of a single string. Assume that the maximum size of the string is 50.

The input string can contain only lowercase and uppercase letters.

If the input string contains any other character, print “Invalid Input”.

For valid inputs, print the rotated string.

**Sample Input 1:**

1

Punitha

**Sample Output 1:**

unithaP

**Sample Input 2:**

-1

Punitha

**Sample Output 2:**

aPunith

**Sample Input 3:**

rty3!&

**Sample Output 3:**

Invalid Input

\* A Sample snapshot of execution of your program for **some** of the inputs is given below, kindly check the 'Expected Output' and 'Obtained Output' to ensure there are no deviations (CAPS, SPACE, EXTRA PROMPTS and EXTRA LINES). There may be many other inputs for which your program may fail.

| **S.No** | **Test** | **Expected** | **Obtained** | **Differences** |
| --- | --- | --- | --- | --- |
| 1 | **Input:** -1 Punitha | aPunith | aPunith |  |
| 2 | **Input:** 3 Ananthi | nthiAna | nthiAna |  |
| 3 | **Input:** rty3!& | Invalid Input | Invalid Input |  |
| 4 | **Input:** ()\*(&\*a | Invalid Input | Invalid Input |  |
| 5 | **Input:** 1 Punitha | unithaP | unithaP |  |

Page of

**Same case Affinity**

**Same case Affinity**

Mahirl always has an affinity towards strings that contain only lowercase letters or only uppercase letters. According to her, only such strings are special strings. Given a string, she would always try to convert that string to a special string by changing the case of certain letters..

Can you write a program to help Mahirl in finding the minimum number of case changes she needs to do to convert a given string to a special string?

**Input and Output Format:**

Input consists of a single string. Assume that the maximum size of the string is 50.

The input string can contain letters, numbers, special characters but not spaces.

If the input string does not contain any alphabets, print “Invalid Input”.

For valid inputs, print an integer that corresponds to the minimum number of case changes needed to convert the given string to a special string.

**Sample Input 1:**

Punitha

**Sample Output 1:**

1

**Sample Input 2:**

123A

**Sample Output 2:**

0

**Sample Input 3:**

^%$3!&

**Sample Output 3:**

Invalid Input