1. **Fetching Middle Characters from String**

Write a program to read a string of even length and to fetch two middle most characters from the input string and return it as string output.

Include a class **UserMainCode** with a static method **getMiddleChars** which accepts a string of even length as input . The return type is a string which should be the middle characters of the string.

Create a class **Main** which would get the input as a string and call the static method **getMiddleChars**present in the UserMainCode.

**Input and Output Format:**

Input consists of a string of even length.

Output is a string .

Refer sample output for formatting specifications.

**Sample Input 1:**

this

**Sample Output 1:**

hi

**Sample Input 1:**

Hell

**Sample Output 1:**

El

1. **Check Characters in a String**

Write a program to read a string  and to test whether first and last character are same. The string is said to be be valid if the 1st and last character are the same. Else the string is said to be invalid.

Include a class **UserMainCode** with a static method **checkCharacters** which accepts a string as input .

The return type of this method is an int.  Output should be 1 if the first character and last character are same . If they are different then return -1 as output.

Create a class **Main** which would get the input as a string and call the static method **checkCharacters**present in the UserMainCode.

**Input and Output Format:**

Input consists of a string.

Output is a string saying characters are same or not .

Refer sample output for formatting specifications.

**Sample Input 1:**

the picture was great

**Sample Output 1:**  
Valid

**Sample Input 1:**

this

**Sample Output 1:**

Invalid

1. **Forming New Word from a String**

Write a program to read a string and a positive integer n as input and construct a string with first n and last n characters in the given string.

Include a class **UserMainCode** with a static method **formNewWord** which accepts a string and positive integer .

The return type of the output should be a string (value) of first n character and last n character.

Create a class **Main** which would get the input as a string and integer n and call the static method**formNewWord** present in the UserMainCode.

**Input and Output Format:**

Input consists of a string of even length.

Output is a string .

Note: The given string length must be >=2n.

Refer sample output for formatting specifications.

**Sample Input 1:**

California

3

**Sample Output 1:**

Calnia

**Sample Input 2:**

this

1

**Sample Output 2:**

Ts

1. **Removing vowels from String**

Given a method with string input. Write code to remove vowels from even position in the string.

Include a class **UserMainCode** with a static method **removeEvenVowels** which accepts a string as input.

The return type of the output is string after removing all the vowels.

Create a **Main** class which gets string as an input and call the static method **removeEvenVowels** present in the **UserMainCode.**

**Input and Output Format:**

Input is a string .

Output is a string .

Assume the first character is at position 1 in the given string.

**Sample Input 1:**

commitment

**Sample Output 1:**

cmmitmnt

**Sample Input 2:**

capacity

**Sample Output 2:**

Cpcty

1. **Find the element position in a reversed string array**

Given a method with an array of strings and one string variable as input. Write code to sort the given array in reverse alphabetical order and return the postion of the given string in the array.

Include a class **UserMainCode** with a static method **getElementPosition** which accepts an array of strings and a string variable as input.

The return type of the output is an integer which is the position of given string value from the array.

Create a **Main** class which gets string array and a string variable as an input and call the static method**getElementPosition**present in the **UserMainCode.**

**Input and Output Format:**

Input is an string array. First element in the input represents the size the array

Assume the position of first element is 1.

Output is an integer which is the position of the string variable

**Sample Input 1:**

4

red

green

blue

ivory

ivory

**Sample Output 1:**

2

**Sample Input 2:**

3

grape

mango

apple

apple

**Sample Output 2:**

3