

Practice

- 01 People often forget closing parentheses when entering formulas. Write a program that asks the user to enter a formula and prints out whether the formula has the same number of opening and closing parentheses.
- 02 Write a program that asks the user to enter a word and prints out whether that word contains any vowels.
- 03 Write a program that asks the user to enter a string *s* and then converts *s* to lowercase, removes all the periods and commas from *s*, and prints the resulting string.
- 04 Write a program that asks the user to enter a word and determines whether the word is a palindrome or not. A palindrome is a word that reads the same backwards as forwards.
- 05 Write a function called *closest* that takes a list of numbers *L* and a number *n* and returns the largest element in *L* that is not larger than *n*. For instance, if *L*=[1,6,3,9,11] and *n*=8, then the function should return 6, because 6 is the closest thing in *L* to 8 that is not larger than 8. Return "No Match" if all of the things in *L* are greater than *n*.
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- 07 The GCD (greatest common divisor) of two numbers is the largest number that both are divisible by. For instance, gcd(18, 42) is 6 because the largest number that both 18 and 42 are divisible by is 6. Write a program that asks the user for two numbers and computes their gcd. Shown below is a way to compute the GCD, called Euclid's Algorithm.
 - First compute the remainder of dividing the larger number by the smaller number
 - Next, replace the larger number with the smaller number and the smaller number with the remainder.
 - Repeat this process until the smaller number is 0. The GCD is the last value of the larger number.
- 08 Determine the maximum and minimum frequency character in a given string. (If multiple characters have maximum and minimum frequency print them all)
- 09 Write a Python program to find the list of words that are longer than *n* from a given list of words.
- 10 Write a function called *verbose* that, given an integer less than 10^6 , returns the name of the integer in English. As an example, *verbose*(123456) should return one hundred twenty-three thousand, four hundred fifty-six. (International Method)