

Assignment 1

Write a recursive function that takes a string as an argument and returns a TRUE if the string is a palindrome otherwise FALSE is returned. A palindrome is a string that reads the same forward and backward (dad, mom, radar). Test with a main program that calls the function. The main function could solicit for input and terminate after receiving an EOF or one can store the strings in a vector or array.

The recursive function should ignore white spaces, capital letters (case insensitive), and punctuation. For example: "A man a plan a canal Panama" would be a palindrome.

Use paragraphing and comment each logical block of source code. Do not use global variables. Your output should be descriptive.

Use the following input:

A man a plan a canal Panama

The rain in Spain

No lemon, no melon

radar

CS1D

Was it a cat I saw?

Racecar

Saddleback

dad

Due January 22nd