Christopher LoPresti

Roslan Arslanouk

CS214

Asst 0: String Sorting

This program takes one string from the command line as an argument. If no argument is provided the program will terminate with a warning message letting the user know about their improper input. Should the user enter a string argument, the program will attempt to separate the users input string into individual strings based on the separators in the input string. If the program finds that there are two or more separators in between individual strings, the program will skip passed the separators until it finds a letter. To be clear, all non-alphabetical characters are separators (Except for $, !, \ and one single " , and any other reserved command line characters we may have missed. One single " is treated as an incomplete argument and the program will not run). The special reserved characters will not work as separators, which means the program will never be initiated, unless using $, in which case any string after the $ will not be found by the program.

Once a string is found, a node to hold that string will be created, and it will be inserted into the tree in its proper sorted order. The strings are sorted in descended alphabetical order, with words starting with uppercase letters coming before words starting with lowercase letters (ex: A before Z and a before z). Once the inserting is complete, the words will be printed on individual lines, then the nodes holding their values will have their memory freed.