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MCS 360 project 2

Project 2

Changecase() is a function that is called when the character is equal 42 which is the operator \*.

This changes the case of the letters by using toupper() and tolower()

Swap() is a function that is called when the character is equal to 38 which is the operator &. This switches the last letter with the letter that is currently being operated on.

Add() is a function that is called when the character equals 43 which is the operator +. This goes to the next letter every time it is used.

Multiply() is a function that is called when the character is a number between 0-9, the number is the operator. This displays the letter as many times as the number. So the operator 3 after r would mean r is displayed 3 times.

Each letter is inserted into a stack until it hits an operator. The stack pops that letter out and operates on it and pushes it back into the stack. It moves on to the next operator or the next letter. In the end the stack pops out and displays all the letters that were pushed in to create the expression.

The function puts each character in an array and checks to see if it is a letter, operator, or unwanted character. The unwanted characters are ignored. If it is an operator then the evaluate function is called to check which operator is called. Then the operation is done to the previous character and added to the stack. The stack is finally printed with the last element popped out first and the first element pushed on pops out last on to the scree.