Stephen Barton Jr

Prompt #4 Narrative

18 MAR 2019

The program I created was prompt 4, which was to make a program that prints out Roman numeral values ranging from 1 to 100. To start off I had to implement a way that the user could not see the table unless they knew the password. In order to ensure the user correctly inputted the password I used the “strcmp” function. If correctly inputted a for loop would begin that starts printing out the numbers from smallest to largest. The program is very simple as it basically just has checkpoints for numbers. It will check if the number is 100 and if so it prints out C and that ends the program. Other checkpoints were the number being greater than or equal to 50, 40, 10, and 5. Also greater than zero. Upon checking if the number was greater than those numbers it would print the Roman numeral value of 50 (for example) and then subtract 50 from the number. If the number is still greater than 40 it will print that Roman numeral value as well and subtract 40. It will then continue checking and printing the Roman numeral values as long as the number is still greater than 0. Conditions were added to ensure the Roman numerals that can repeat never repeated more than 3 times. Specific ones were for the number 9 and 4. Also the implementation of 40 is essential to the program since without it any number greater than 40, besides 50 and 100, would print out “X” four times. The program exits once the number is equal to 0 and the table is printed.