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1. The first obstacle was finding a starting point for the project. I decided to start with the required function “getFirstWord( )”. I had a problem getting the first word from a string if there were spaces before the first word. I eventually solved that by using an “if (isalpha( ))” condition to find the beginning of the first word and then finding the end of the first word with “if (!isalpha( ))”.

Another problem I had was after I had finished the program. I ran the program and the program would stop after I inputted the body of the email. I found that I had an infinite “while loop” when the program was searching the subject string for all-caps words. I found that there was an error in the “extractWord( )” function. The function would work correctly until it reaches the last word. Once it reached the last word, it would return the last word but would not remove the last word from the original string. Because the function would keep returning the last word over and over again, my while loop was infinite. I solved this problem by adding a “y = k” line to the “for loop” so that the last word would be removed by the substring command.

1. repeatedly:

read subject input

read body input

if last word of subject is gibberish, spam score +40

if subject has 3 or more consecutive exclamation marks, spam score +20

if subject has more than 90% all-caps words, spam score +30

for every special word found in body, spam score +5

if body has more than 50% all-caps words, spam score +40

write if message is spam or legitimate

ask if user wants to classify another email

if user does not enter “y” or “n”, repeat prompt

if user enters “n”

break

write number of spam messages

write number of legitimate messages

1. Test gibberish (Make money today! Tkxxqqq, Follow link: www.monay.com, n)

Test exclamation marks (Make money today!!!, Follow link: www.monay.com, n)

Test subject caps (MAKE MONEY TODAY!, Follow link: www.monay.com, n)

Test special words (Make money today!, Click link: www.money.com, n)

Test body caps (Make money today!, MAKE LOTS OF MONEY NOW, n)

Test spam score over 100 (MAKE MONEY TODAY!!! Tkxxqqq, CLICK OUR LINK: www.money.com FOR MORE INFO!, n)

Test for repeated non “y” or “n” input (Make money today!, Follow link: www.monay.com, yes, negative, nope, n)

Test for “y” input (Make money today!, Follow link: www.monay.com, y, Sex pills!, Follow link: www.sextime.com, n)

Test multiple body lines (Make money today!, Hello there sir! (enter) We would like to offer you a chance to make lots of money! (enter) Follow the link: www.monay.com, n)