**Tyler Holland**

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Lab 7

No Cheating Signature:

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Only Part 1

**C Recursion:**

#include <stdio.h>

int charCount(char search, char\* array, int place)

{

if (array[place] == search && place < 20)

{

return (1+charCount(search, array, (place+1)));

}

else if (place < 20)

{

return (charCount(search, array, (place+1)));

}

else

{

return 0;

}

}

int main (int argc, const char \* argv[])

{

char array[20];

char search;

int count = 0;

char safety = 'a';

printf("Enter a String: ");

do

{

scanf("%c", &safety);

array[count] = safety;

count++;

}

while (safety != '\n' && count < 20);

printf("Enter a char to search for: ");

scanf(" %c", &search);

printf("There are %d characters in that string.\n", charCount(search, array, 0));

return 0;

}