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1. During the process of writing out this program, I noticed several times that I made a few very subtle but significant mistakes such as forgetting to write “==” instead of “=” or putting a return statement outside of the parentheses of a for loop. I also spent the longest time on the divider function trying to figure out how to complete the task without using a separate string array and figuring out a method to sort the divider if it’s inside the given array.
2. Function 1 –

a[5] = daenerys, jon, tyrion, samwell, margaery

acap = a, apple, Apple, App, APPLE

(findMaximum(a, 5) == tyrion); test if function reads max properly

(findMaximum(acap, 5) == apple); test if function can account for capitalization too

Function 2 –

b[4] = howard, ucla, howard, ucla

hasDuplicatedValues(b, 2) test if function returns false properly

hasDuplicatedValues(b, 4) test if function returns true properly

Function 3-

c[5] = samwell, jon, margaery, daenerys, tyrion

countAllVowels(c, 5) test if function returns correct number of vowels

countAllVowels(c, 0) test if function returns -1 properly

Function 4 –

d[5] = one, 2, three, 004, five

countIntegers(d, 5) test if function returns number 2 correctly

countIntegers(d, 2) test if function returns 0 correctly

countIntegers(d, 0) test if function returns -1 properly

d2[5] = 1, 09, 5059590, 0, .02

countIntegers(d2, 5) test if function returns 4 -- “.02” isn’t an integer

Function 5 -

e[5] = daenerys, jon, tyrion, samwell, margaery

moveToEnd(e, 5, 1) test if function returns 1 and also print strings to see if array sorted properly

moveToEnd(e, 0, 1) test if function returns -1 properly

moveToEnd(e, 5, 8) test if function returns -1 properly

Function 6 –

f[5] = one, two, three, four, five

rotateRight(f, 5, 3) test if function returns 15 properly and also print strings in array to see if sorted properly

rotateRight(f, -2, 3) test if function returns -1 correctly

Function 7 –

g[6] = one, two, three, four, five, six

shiftLeft(g, 6, 4, “hello”) test if returns value 4 properly and also print the strings in array to see if “hello” properly printed

shiftLeft(g, 6, 10, “hello”) test if properly returns “n” and also print the strings in array to see if “hello” properly sorted

shiftLeft(g, 0, 10, “hello”) test if returns -1 properly.

Function 8 –

h[5] = Evans, Coltrane, Monk, Ellington, Miles

divide(h, 5, “Liszt”) test if returns proper position of first string that is greater than divider and also print the strings to see if the array is ordered properly.

divide(h, -10, “david”) test if returns -1 properly because of invalid n value.

divide(h, 5, “Evans”) test if function works properly when divider is also in array