**Obstacles Overcome:**

Separate was rather hard to figure out, especially trying to do it in place without creating a new array. To keep everything correct, using two pointers to either side of the < and > was necessary.

Making sure there were no out of range calls resulting in memory leaks was while not extremely challenging, a thing to keep in mind for the entire time.

**List of Test Data:**

string c[6] = { "donald", "kamala", "jd", “”, "tim", "jill" }

appendToAll(c, 3, "!")

* test basic functionality of appendToAll

lookup(c, 3, “kamala”)

* test basic functionality of lookup

lookup(c, 3, “”)

* test comparison with empty string

positionOfMax(c, 6)

* test basic functionality

rotateLeft(c, 5, 3)

* test basic functionality

countRuns(c, 4)

* test basic functionality

flip(c, 4)

* test basic functionality

string d[6] = { "donald", "kamala", "kd", “”, "tim", "jill" }

differ(c, 4, d, 4)

* test functionality

subsequence(c,4, d, 2)

* test functionality

string e[6] = {“a”, “b”, “kd”}

lookupAny(d,4,e,3)

* test basic functionality

separate(c, 7, “jd”)

* test functionality