Project 5 Report

Notable Obstacles

Learning cstring functions and making sure there were no compile errors with cstrings

Description

makeProper

repeatedly

check if valid

repeatedly make strings lowercase while checking if they are all letters

repeatedly

check remaining strings for repeat patterns

set separation to -1 for all repeats

keep track of max separation

change first non-good position to current good values

return overall count

rate

copy all valid characters to new char array

parse the new char array into all words with temporary storage array

for each pattern

iterate through all pairs of words

check if they match pattern and separation is valid

update count

return count

Test Cases

**const** **int** TEST14 = 8;

**char** t1[TEST14][MAX\_WORD\_LENGTH+1] = {"hi", "hi", "hi", "bye", "bye", "hi", "hi", "bye"};

**char** t2[TEST14][MAX\_WORD\_LENGTH+1] = {"hi", "hi", "hi", "bye", "bye", "hi", "hi", "bye"};

**int** t3[TEST14] = {14, -1, -1, 14, 2, -1, -1, 14};

**int** x = makeProper(t1, t2, t3, TEST14);

-Check if program works with repeat values (should return 2)

t3[TEST14] = {-1, -1, -1, 14, 2, -1, -1, 14};

-Check if program works with separation of -1 and omits it

**const** **int** TEST1\_NRULES = 5;

**char** test1w1[TEST1\_NRULES][MAX\_WORD\_LENGTH+1] = {"mAd","deraNged","half-witted","nefarious","have"};

**char** test1w2[TEST1\_NRULES][MAX\_WORD\_LENGTH+1] = {"scientist","robot","SCIENTIST","Plot","mad"};

**int** test1dist[TEST1\_NRULES] = {1,3,9,0,12};

assert(makeProper(test1w1,test1w2,test1dist,TEST1\_NRULES)==4);

assert(rate("The mad UCLA scientist\*\*\*%^&\*( unleashed a deranged evil giant robot.", test1w1, test1w2, test1dist, 4)==2);

-Test if program removes invalid patterns

-Test if rate removes bad characters from document

-Test if rate works for a test case

assert(rate("\*\* 2018 \*\*",

test1w1, test1w2, test1dist, 4) == 0);

-Test if rate works for empty document