CSC 323-32: Project 1.2 <Insertion Sort> (C++/Java)

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Due date: Sept. 13, 2016

\*\*\*\* Algorithm steps for linked list insertion sort:

Step 0: prepare the skeleton of your program, including classes, etc.

Step 1:  inFile1 <-- open common word file

            outFile1 <-- open outFile-1

Step 2: CwordlistHead <-- make a new linked list by the list constructor where CwordlistHead points to a dummy node

Step 3:  commonWord <-- read a word from inFile1

Step 4:  spot <-- findSpot(CwordlistHead , commonWord) // see algorithm steps below

Step 5:  if spot != null // not duplicates

     5.1: newNode <-- make a new node for  commonWord

     5.2: call listInsert (Spot, newNode)

Step 6:  debugPrint(outFile1, CwordlistHead)

Step 7: repeat step 3 to step 6 until the inFile1 is empty

Step 8: inFile2 <-- open English text file

Step  9: insertionCnt <-- 0

Step 10: textListHead <-- make a new linked list by the list constructor where textListHead points to a dummy node

Step 11:  textWord <-- read a word from inFile2

Step 12:  if (isCommonWord (CwordlistHead, data) == false)

12.1:  spot <-- findSpot(textListHead , textWord)

12.2: if spot == null

                  Spot.count ++

else

newNode <--  make a new node for  textWord

listInsert (Spot, newNode)

insertionCnt++

Step 13: if insertionCnt >= 5

debugPrint(outFile1, textListHead)

  insertionCnt <-- 0

Step 14: repeat step 11 to step 13 until the inFile2 is empty

Step 15: outFile2 <-- open output file2

Step 16: printSortedList (outFile2 , textListHead)

INPUT

you

i he she

are is

was am were

of and if or

him a an one

yes no

on in that

the they them who

what where

when how why

it here there

not this for

as be

four score and seven years ago our fathers brought forth on this continent a new nation conceived

in liberty and dedicated to the proposition that all men are created equal now we are engaged in a

great civil war testing whether that nation or any nation so conceived and so dedicated can long

endure we are met on a great battlefield of that war we have come to dedicate a portion of that

field as a final resting place for those who here gave their lives so that nation might live it is

altogether fitting and proper that we should do this but in a larger sense we cannot dedicate we

cannot consecrate we cannot hallow this ground the brave men living and dead who struggled here

have consecrated it far above our poor power to add or detract the world will little note nor long

remember what we say here but it can never forget what they did here it is for us the living

rather to be dedicated here to the unfinished work which they who fought here have thus far so

nobly advanced it is rather for us to be here dedicated to the great task remaining before us that

from these honored dead we take increased devotion to that cause for which they gave the last full

measure of devotion that we here highly resolve that these dead shall not have died in vain that

this nation under god shall have a new birth of freedom and that government of the people by the

people for the people shall not perish from the earth

OUTPUT

listHead --> (dummy, you) --> (you, null)

listHead --> (dummy, i) --> (i, you) --> (you, null)

listHead --> (dummy, he) --> (he, i) --> (i, you) --> (you, null)

listHead --> (dummy, he) --> (he, i) --> (i, she) --> (she, you) --> (you, null)

listHead --> (dummy, are) --> (are, he) --> (he, i) --> (i, she) --> (she, you) --> (you, null)

listHead --> (dummy, are) --> (are, he) --> (he, i) --> (i, is) --> (is, she) --> (she, you) --> (you, null)

listHead --> (dummy, are) --> (are, he) --> (he, i) --> (i, is) --> (is, she) --> (she, was) --> (was, you) --> (you, null)

listHead --> (dummy, am) --> (am, are) --> (are, he) --> (he, i) --> (i, is) --> (is, she) --> (she, was) --> (was, you) --> (you, null)

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listHead --> (dummy, ago) --> (ago, four) --> (four, score) --> (score, seven) --> (seven, years) --> (years, null)

listHead --> (dummy, ago) --> (ago, brought) --> (brought, continent) --> (continent, fathers) --> (fathers, forth) --> (forth, four) --> (four, our) --> (our, score) --> (score, seven) --> (seven, years) --> (years, null)

listHead --> (dummy, ago) --> (ago, brought) --> (brought, conceived) --> (conceived, continent) --> (continent, dedicated) --> (dedicated, fathers) --> (fathers, forth) --> (forth, four) --> (four, liberty) --> (liberty, nation) --> (nation, new) --> (new, our) --> (our, score) --> (score, seven) --> (seven, years) --> (years, null)

listHead --> (dummy, ago) --> (ago, all) --> (all, brought) --> (brought, conceived) --> (conceived, continent) --> (continent, created) --> (created, dedicated) --> (dedicated, fathers) --> (fathers, forth) --> (forth, four) --> (four, liberty) --> (liberty, men) --> (men, nation) --> (nation, new) --> (new, our) --> (our, proposition) --> (proposition, score) --> (score, seven) --> (seven, to) --> (to, years) --> (years, null)

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listHead --> (dummy, ago) --> (ago, all) --> (all, any) --> (any, brought) --> (brought, can) --> (can, civil) --> (civil, conceived) --> (conceived, continent) --> (continent, created) --> (created, dedicated) --> (dedicated, endure) --> (endure, engaged) --> (engaged, equal) --> (equal, fathers) --> (fathers, forth) --> (forth, four) --> (four, great) --> (great, liberty) --> (liberty, long) --> (long, men) --> (men, met) --> (met, nation) --> (nation, new) --> (new, now) --> (now, our) --> (our, proposition) --> (proposition, score) --> (score, seven) --> (seven, so) --> (so, testing) --> (testing, to) --> (to, war) --> (war, we) --> (we, whether) --> (whether, years) --> (years, null)

listHead --> (dummy, ago) --> (ago, all) --> (all, any) --> (any, battlefield) --> (battlefield, brought) --> (brought, can) --> (can, civil) --> (civil, come) --> (come, conceived) --> (conceived, continent) --> (continent, created) --> (created, dedicate) --> (dedicate, dedicated) --> (dedicated, endure) --> (endure, engaged) --> (engaged, equal) --> (equal, fathers) --> (fathers, forth) --> (forth, four) --> (four, great) --> (great, have) --> (have, liberty) --> (liberty, long) --> (long, men) --> (men, met) --> (met, nation) --> (nation, new) --> (new, now) --> (now, our) --> (our, portion) --> (portion, proposition) --> (proposition, score) --> (score, seven) --> (seven, so) --> (so, testing) --> (testing, to) --> (to, war) --> (war, we) --> (we, whether) --> (whether, years) --> (years, null)

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