CSC 323-32: Project 1.1 (C++/Java)

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

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

Step 1:  open inFile1

Step 2: CwordlistHead <-- make a new linked list by the list constructor

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

Step 4:  spot <-- findSpot(commonWord)

Step 5:  newNode <-- make a new node for commonWord

Step 6: call listInsert (Spot, newNode)

Step 7: call printList (C CwordlistHead)

Step 8: repeat step 3 to step 7 until the inFile1 is empty

\*\*\*\* Algorithm steps for findSpot (listHead, data):

Step 1: spot <-- listHead

Step 2: if (spot.next != null) and spot.next.data < data

           Spot <-- Spot.next

Step 3: repeat step 2

Step 4: return spot

\*\*\*\* Algorithm steps for listInsert (Spot, newNode)

Step 1: newNode <-- Spot.next

Step 2: Spot.next <-- newNode

INPUT

you

I he she

are is

was am were

of and if or

him a an one

yes no

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)

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