## Name: pointsorter

## Description:

We take an input string say "hello/rutgers/systems.programing.class". We go through the char array and find all the non alphabetic characters and replace them with a generic character that stands for non alphabetic. We chose to use "/" as the generic character. So our string becomes

"hello/rutgers/systems/programming/class". This is done by the isAlpha method. This also uses the divider to count the number of words. We then use strtok to break the character array into tokens of words, each word is then saved into a token. The token is then used as a parameter to the createNode method which makes the word a node. Then the root of the list is used as parameter to the sort method. This alphabetically adds new nodes to the correct spot. the number of nodes is determined by NUM\_WORDS.

## Design:

```
pointsorter.h
-contains the struct for the node
pointsorter.c
-contains the main method, which uses multiple methods.
freeLL
-frees allocated space for linked lis
createNode
-makes node
isAlpha
-replaces non alphabetical characters in a string
with '/'
sort
-adds nodes to Linked List alphabetically
printLL
-prints the Linked List
```

## Example:

```
mihir$ ./main "hello.rutgers.systems/programming"
hello
programming
rutgers
systems
```