

Pseudo Code to extract words from one line of text

Given a line of text, represented as (char * aline). Assume the string has a line feed '\n' at the end.

```
extractOneLine( char *aline )
{
    inWord = False;
    Create a new empty linkedList wordList
    i = 0; // Means starting from the first index of 0, the first char in sentence
    wordLen = 0; // length of a word
    while( aline[i] != '\n' && aline[i] != '\0' ) {
        if aline[i] is an alphabetical letter {
            if inWord is false, then {
                start = i; //We reach the start of a new word, then save i into variable start.
                inWord = true;
            } //end if
            wordLen ++;
        } //end if
        else if (inWord is true) { //Means the current character is Not an alphabetical letter, but a delimiter.
            We have found an English word starting at indext start, with length of wordLen.
            Use the subString method to copy the word into a string varialbe newWord

            if( newWord is not a single-letter word, OR newWord is 'a' or 'A' or 'l' or 'i' ) {
                if newWord not exist in wordList, Create a WordItem object for newWord and insert the object into wordList.
                Or update occurrence in the wordList if newWord has been existing in wordList.
            } //end if

            Reset wordLen = 0;
            Reset inWord = False;
        } //end else if
        increase i by one for next character
    } //end of while
}
```

Add the last word in the input aline, if the input aline not empty.

Return wordList;

}//end of program