

Section number:
10-14-2021
CS 256

Lab Day

 name

1.⁰ Count the words in the file /u1/junk/shakespeare.txt

a.⁰ What is a word?

b.⁰ Program Name: wis.c The program plan:

```
#include<stdio.h>
#define SZ 100
#define FNAME "/u1/junk/shakespeare.txt"
char word[SZ];

function int wordChar(int c)
returns 1 if c is a word char and 0 otherwise

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function  int getNextWord(FILE *f)
returns 1 if it gets a next word OR 0 for EOF and no word
1.  Loop: Get a character code
2.    if it is EOF quit the loop.
3.    if it does not belong in a word go back to step 1.
4.    otherwise loop while the characters belong in a word:
5.      keep accumulating the good characters
6.    quit when a non-word character is hit.
7.    return 1    //a word has been found
8.  If EOF is hit with no word characters return 0

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function int main()
9.  Open the file
10. set up the variable:  int count=0;
11. Loop:  while (getNextWord(f))
12.    Each time getNextWord returns a non zero value:
        count that as one more  word
13. After the loop finishes, print out the number of words found
```

c.⁰ Compile and run the program wis.c. Compare your results with the command:
`wc /u1/junk/shakespeare.txt`

d.⁰ Read the man page on the command `wc`

e.⁰ Read the man page on the function `isspace(c)`

f.⁰ Write the program file wis2.c that uses this new definition for what characters can be in words. Your new count should be the same as that given by the `wc` command.