semyon@semyon-VirtualBox:~$ cat head

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* Лабораторная работа №10 \*

\* Отладчик системы \*

\* программирования ОС Unix \*

\* Работу выполнил: \*

\* Стеснягин Семён \*

\* Группа 80-102Б \*

\* \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

semyon@semyon-VirtualBox:~$ cat lab11\_var43.c

#include <stdio.h>

int main(void) {

int input, wordCount, charCount, state;

wordCount = charCount = state = 0;

while((input = getchar()) != EOF) {

if(input == ' ' || input == '\n' || input == '\t') {

state = 0;

}

else {

if(state == 0) {

state = 1;

wordCount++;

}

charCount++;

}

}

printf("%s %.2f"\n,"The average length of a word is", (float)charCount/(float)wordCount);

return 0;

}

semyon@semyon-VirtualBox:~$ gcc lab11\_var43.c -g

semyon@semyon-VirtualBox:~$ gdb a.out

GNU gdb (Ubuntu 7.7.1-0ubuntu5~14.04.2) 7.7.1

Copyright (C) 2014 Free Software Foundation, Inc.

License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>

This is free software: you are free to change and redistribute it.

There is NO WARRANTY, to the extent permitted by law. Type "show copying"

and "show warranty" for details.

This GDB was configured as "x86\_64-linux-gnu".

Type "show configuration" for configuration details.

For bug reporting instructions, please see:

<http://www.gnu.org/software/gdb/bugs/>.

Find the GDB manual and other documentation resources online at:

<http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from a.out...done.

(gdb) break 7

Breakpoint 1 at 0x40059a: file lab11\_var43.c, line 7.

(gdb) run

Starting program: /home/semyon/a.out

Hello World

Breakpoint 1, main () at lab11\_var43.c:7

7 if(input == ' ' || input == '\n' || input == '\t') {

(gdb) next

11 if(state == 0) {

(gdb) next

12 state = 1;

(gdb)

13 wordCount++;

(gdb)

15 charCount++;

(gdb)

6 while((input = getchar()) != EOF) {

(gdb)

Breakpoint 1, main () at lab11\_var43.c:7

7 if(input == ' ' || input == '\n' || input == '\t') {

(gdb)

11 if(state == 0) {

(gdb)

15 charCount++;

(gdb)

6 while((input = getchar()) != EOF) {

(gdb)

Breakpoint 1, main () at lab11\_var43.c:7

7 if(input == ' ' || input == '\n' || input == '\t') {

(gdb)

11 if(state == 0) {

(gdb)

15 charCount++;

(gdb)

6 while((input = getchar()) != EOF) {

(gdb)

Breakpoint 1, main () at lab11\_var43.c:7

7 if(input == ' ' || input == '\n' || input == '\t') {

(gdb) print charCount

$1 = 3

(gdb) print wordCount

$2 = 1

(gdb) quit

A debugging session is active.

Inferior 1 [process 2524] will be killed.

Quit anyway? (y or n) y