Lab8

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Part1

- 4) break 6 (line number was 6)
- 4) run

6)

	1 st Iteration	2 nd Iteration	3 rd Iteration	4 th Iteration
num	112	11	1	0
rev_num	5	52	521	5211

8) reverse the given number ex) 1125 -> 5211

Part2

1) Errors during compiling

Line 11: $! = \n$ \rightarrow $! = '\n'$

Line 13: declare 'space' → int space;

2) After running program

```
Enter a Sentence: It was deja vu all over again.
Average word length : 0.0[Inferior 1 (process 7850) exited normally]
```

```
Enter a Sentence: It was deja vu all over gain.
                         if(character != ' ')
(gdb) n
                                 if(!space)
16
(gdb) n
                                 words++;
(gdb) n
                                 space = 1;
(gdb) n
                                 letters++;
(gdb) n
                while((character=getchar()) != '\n')
(gdb) n
                        if(character != ' ')
(gdb) n
                                 if(!space)
(gdb) n
(gdb) n
                while((character=getchar()) != '\n')
(gdb)
```

Incorrect output with infinite loop.

To int letters, int space, int words, we need to initialize default value to each variable.

```
Int letters = 0;
Int space = 0;
Int words = 0;

After that
Also, line 22
printf("Average word length : %.1f", letters/words);

In front of 'letters', I need to add '(float)' to cast the type of print statement.
printf("Average word length : %.1f", (float)letters/words);
```

Output:

```
Starting program: /home/hlee152/q2
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib64/libthread_db.so.1".
Enter a Sentence: It was deja vu all over again.
Average word length: 3.4[Inferior 1 (process 13133) exited normally]
```