시스템프로그래밍 코드 정리 및 깃허브 정리

https://github.com/sungwo0/SystemProgramming

소프트웨어학과 2020875029 신성우

코드 정리

```
stud@DESKTOP-7DQM460:~/ppt$ date
Thu Jun 12 09:48:23 KST 2025
stud@DESKTOP-7DQM460:~/ppt$ hostname
DESKTOP-7DQM460
stud@DESKTOP-7DQM460:~/ppt$ uname
Linux
stud@DESKTOP-7DQM460:~/ppt$ uname -a
Linux DESKTOP-7DQM460 5.15.167.4-microsoft-standard-WSL2 #1 SMP Tue
Nov 5 00:21:55 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
stud@DESKTOP-7DQM460:~/ppt$ whoami
stud
stud@DESKTOP-7DQM460:~/ppt$ who
stud
         pts/1
                     2025-06-12 09:35
stud@DESKTOP-7DQM460:~/ppt$ ls
stud@DESKTOP-7DQM460:~/ppt$ which ls
/usr/bin/ls
```

```
stud@DESKTOP-7DQM460:~/ppt$ pwd
/home/stud/ppt
stud@DESKTOP-7DQM460:~/ppt$ mkdir test
stud@DESKTOP-7DQM460:~/ppt$ ls
1.c test
stud@DESKTOP-7DQM460:~/ppt$ rmdir test
stud@DESKTOP-7DQM460:~/ppt$ ls
1.c
stud@DESKTOP-7DQM460:~/ppt$ ls /
bin
                  etc lib.usr-is-merged mnt run
                                                                   srv var
bin.usr-is-merged home lib64
                                          opt sbin
                                                                   sys
                  init lost+found
boot
                                          proc sbin.usr-is-merged tmp
dev
                  lib media
                                          root snap
                                                                   usr
stud@DESKTOP-7DQM460:~/ppt$ ls ~
0321 ppt snap software
stud@DESKTOP-7DQM460:~/ppt$ ls -a
  .. 1.c
stud@DESKTOP-7DQM460:~/ppt$ ls -s
total 0
0 1.c
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 0
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
```

```
stud@DESKTOP-7DOM460:~/ppt$ touch test.txt
stud@DESKTOP-7DQM460:~/ppt$ ls
1.c test.txt
stud@DESKTOP-7DQM460:~/ppt$ cat > test1.txt
Hello World!
stud@DESKTOP-7DQM460:~/ppt$ ls
1.c test.txt test1.txt
stud@DESKTOP-7DQM460:~/ppt$ cat test1.txt
Hello World!
stud@DESKTOP-7DQM460:~/ppt$ wc test1.txt
1 2 13 test1.txt
stud@DESKTOP-7DQM460:~/ppt$ cp test1.txt test2.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 8
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 0 Jun 12 09:56 test.txt
-rw-r--r-- 1 stud stud 13 Jun 12 09:57 test1.txt
-rw-r--r-- 1 stud stud 13 Jun 12 10:04 test2.txt
stud@DESKTOP-7DQM460:~/ppt$ mv test2.txt test3.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 8
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 0 Jun 12 09:56 test.txt
-rw-rw-rw- 1 stud stud 13 Jun 12 14:16 test1.txt
-rw-r--r-- 1 stud stud 13 Jun 12 14:25 test3.txt
```

```
stud@DESKTOP-7DQM460:~/ppt$ rm test3.txt
stud@DESKTOP-7DOM460:~/ppt$ ls -l
total 4
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 0 Jun 12 09:56 test.txt
-rw-r--r-- 1 stud stud 13 Jun 12 09:57 test1.txt
stud@DESKTOP-7DQM460:~/ppt$ ln test1.txt text2.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 8
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 0 Jun 12 09:56 test.txt
-rw-r--r-- 2 stud stud 13 Jun 12 09:57 test1.txt
-rw-r--r-- 2 stud stud 13 Jun 12 09:57 text2.txt
stud@DESKTOP-7DQM460:~/ppt$ ln -s test1.txt test2.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 8
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 6 Jun 12 15:03 test.txt
-rw-r--r-- 1 stud stud 14 Jun 12 15:03 test1.txt
lrwxrwxrwx 1 stud stud 9 Jun 12 15:04 test2.txt -> test1.txt
stud@DESKTOP-7DQM460:~/ppt$ file test.txt
test.txt: empty
stud@DESKTOP-7DQM460:~/ppt$ file test1.txt
test1.txt: ASCII text
```

```
stud@DESKTOP-7DQM460:~/ppt$ chmod g+w,o+rw test1.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 8
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 0 Jun 12 09:56 test.txt
-rw-rw-rw- 2 stud stud 13 Jun 12 09:57 test1.txt
lrwxrwxrwx 1 stud stud 9 Jun 12 14:12 test2.txt -> test1.txt
-rw-rw-rw- 2 stud stud 13 Jun 12 09:57 text2.txt
stud@DESKTOP-7DQM460:~/ppt$ touch test1.txt
stud@DESKTOP-7DQM460:~/ppt$ ls -l test1.txt
-rw-rw-rw- 2 stud stud 13 Jun 12 14:16 test1.txt
stud@DESKTOP-7DQM460:~/ppt$ ip addr
1: lo: <LOOPBACK, UP, LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default glen
 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
```

inet 10.255.255.254/32 brd 10.255.255.254 scope global lo

```
stud@DESKTOP-7DQM460:~/ppt$ find . -user stud -print
.
./1.c
./test2.txt
./test1.txt
./test1.txt
stud@DESKTOP-7DQM460:~/ppt$ find ~ -type l -print
```

/home/stud/snap/tree/current
/home/stud/ppt/test2.txt

valid_lft forever preferred_lft forever

valid_lft forever preferred_lft forever

```
stud@DESKTOP-7DQM460:~/ppt$ grep -v "Python" test4.txt
Bob is a fan of JavaScript.
Java and C++ are also widely used.
stud@DESKTOP-7DQM460:~/ppt$ grep "Python" test4.txt
Alice loves programming in Python.
Charlie prefers Python over Java.
Python is popular among developers.
stud@DESKTOP-7DQM460:~/ppt$ grep -n "Python" test4.txt
L:Alice loves programming in Python.
3:Charlie prefers Python over Java.
Python is popular among developers.
stud@DESKTOP-7DQM460:~/ppt$ grep "[A-Z][a-z]*" test4.txt
Alice loves programming in Python.
Bob is a fan of JavaScript.
Charlie prefers Python over Java.
Python is popular among developers.
Java and C++ are also widely used.
stud@DESKTOP-7DQM460:~/ppt$ sort names.txt
Alice
```

Bob Charlie David Eve

```
stud@DESKTOP-7DQM460:~/ppt$ sort -r names.txt
Eve
David
Charlie
Bob
Alice
stud@DESKTOP-7DQM460:~/ppt$ sort -n numbers.txt
5
7
13
42
99
stud@DESKTOP-7DQM460:~/ppt$ sort -nr numbers.txt
99
42
13
7
stud@DESKTOP-7DQM460:~/ppt$ cmp file1.txt file2.txt
stud@DESKTOP-7DQM460:~/ppt$ cmp file1.txt file3.txt
file1.txt file3.txt differ: byte 28, line 2
stud@DESKTOP-7DQM460:~/ppt$ cmp -l file1.txt file3.txt
28 157 164
29 156 150
30 145 162
31 56 145
32 12 145
cmp: EOF on file1.txt after byte 32
```

```
stud@DESKTOP-7DQM460:~/ppt$ diff -q old.txt new.txt
Files old.txt and new.txt differ

stud@DESKTOP-7DQM460:~/ppt$ diff old.txt new.txt
2c2
< This is the first file.
---</pre>
```

> This is the second file.

> And one more line.

3a4

```
stud@DESKTOP-7DQM460:~/ppt$ split -l 3 sample.txt part_
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 20
-rw-r--r- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r- 1 stud stud 21 Jun 12 14:48 part_aa
-rw-r--r- 1 stud stud 21 Jun 12 14:48 part_ab
-rw-r--r- 1 stud stud 21 Jun 12 14:48 part_ac
-rw-r--r- 1 stud stud 8 Jun 12 14:48 part_ad
-rw-r--r- 1 stud stud 71 Jun 12 14:46 sample.txt
```

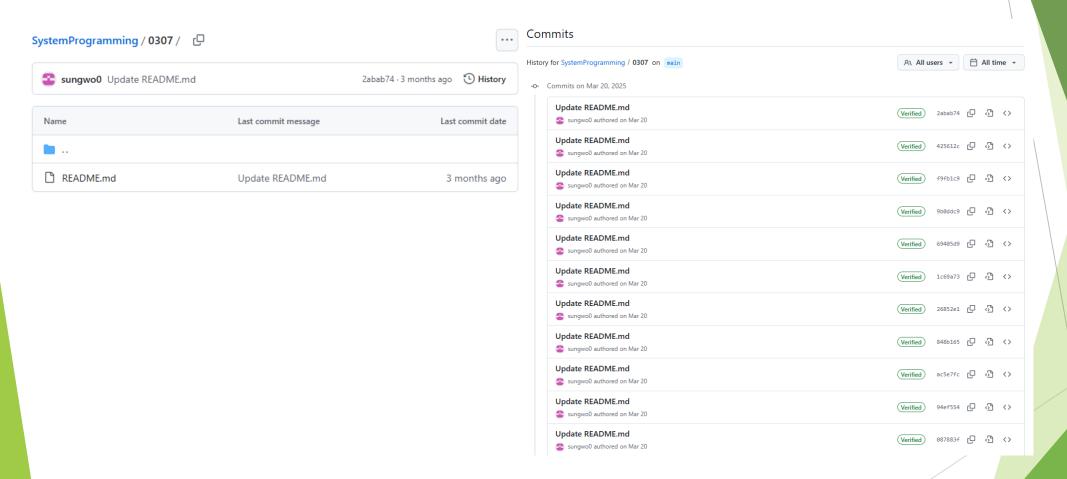
```
stud@DESKTOP-7DQM460:~/ppt$ cat part_aa part_ab > part_aab
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 24
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_aa
-rw-r--r-- 1 stud stud 42 Jun 12 14:50 part_aab
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_ab
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_ac
-rw-r--r-- 1 stud stud 8 Jun 12 14:48 part_ad
-rw-r--r-- 1 stud stud 71 Jun 12 14:46 sample.txt
```

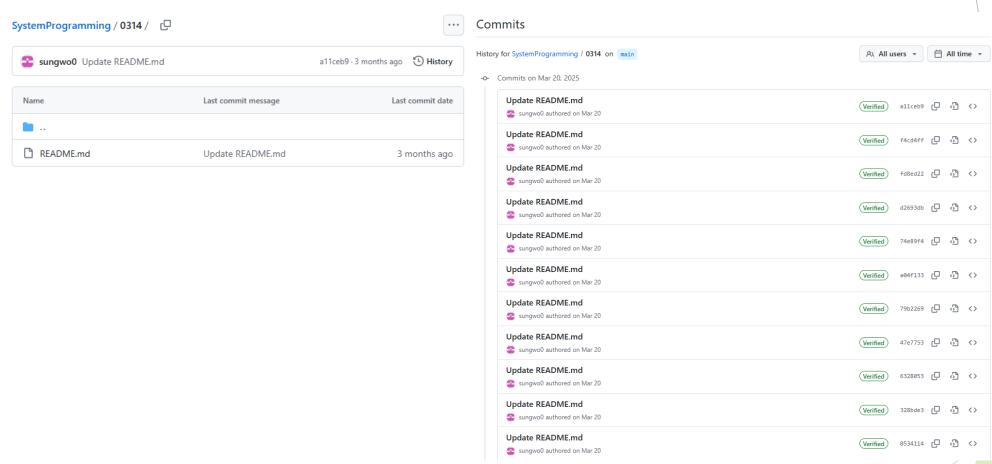
```
stud@DESKTOP-7DQM460:~/ppt$ paste -s part_aa part_ab > part_aaab
stud@DESKTOP-7DQM460:~/ppt$ ls -l
total 28
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_aa
-rw-r--r-- 1 stud stud 42 Jun 12 14:51 part_aaab
-rw-r--r-- 1 stud stud 42 Jun 12 14:50 part_aab
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_ab
-rw-r--r-- 1 stud stud 21 Jun 12 14:48 part_ac
-rw-r--r-- 1 stud stud 8 Jun 12 14:48 part_ad
-rw-r--r-- 1 stud stud 71 Jun 12 14:46 sample.txt
```

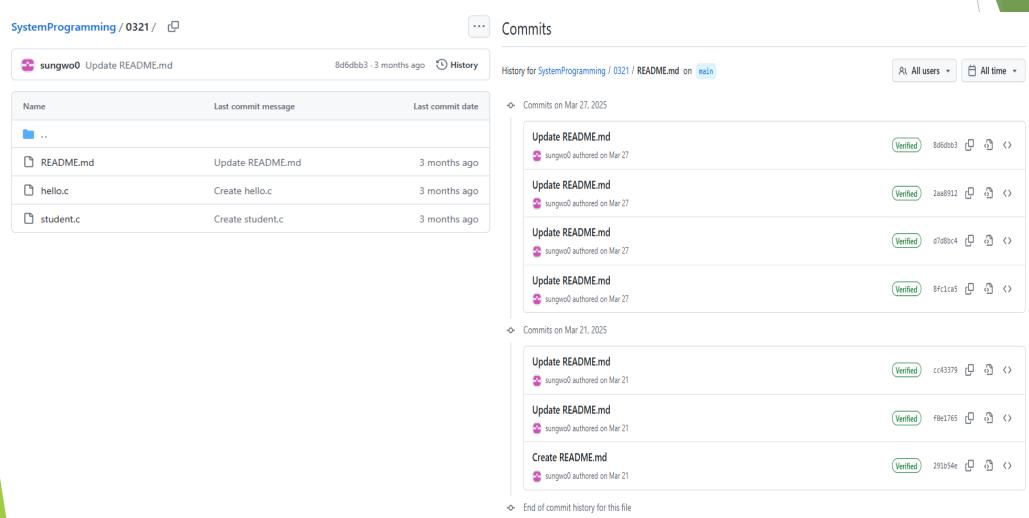
| | | + 16 | | | |
|---------------------------------|------------|------------|-----------|------|------------------------------------|
| stud@DESKTOP-7DQM460:~/ppt\$ df | | | | | |
| Filesystem | 1K-blocks | | | | Mounted on |
| none | 4048472 | Θ | 4048472 | 0% | /usr/lib/modules/5.15.167.4-micros |
| oft-standard-WSL2 | | | | | |
| none | 4048472 | 4 | 4048468 | 1% | /mnt/wsl |
| drivers | 487573700 | 446856096 | 40717604 | 92% | /usr/lib/wsl/drivers |
| /dev/sdc | 1055762868 | 2126052 | 999933344 | 1% | / |
| none | 4048472 | 108 | 4048364 | 1% | /mnt/wslg |
| none | 4048472 | 9 | 4048472 | 0% | /usr/lib/wsl/lib |
| rootfs | 4044980 | 2372 | 4042608 | 1% | /init |
| none | 4048472 | 792 | 4047680 | 1% | /run |
| none | 4048472 | 9 | 4048472 | 0% | /run/lock |
| none | 4048472 | 9 | 4048472 | 0% | /run/shm |
| tmpfs | 4096 | 9 | 4096 | 0% | /sys/fs/cgroup |
| none | 4048472 | 76 | 4048396 | 1% | /mnt/wslg/versions.txt |
| none | 4048472 | 76 | 4048396 | 1% | /mnt/wslg/doc |
| C:\ | 487573700 | 446856096 | 40717604 | 92% | /mnt/c |
| D:\ | 1953497084 | 1681557632 | 271939452 | 87% | /mnt/d |
| snapfuse | 75776 | 75776 | 9 | 100% | /snap/core22/1963 |
| snapfuse | 4608 | 4608 | 0 | 100% | /snap/tree/54 |
| snapfuse | 45568 | 45568 | 9 | 100% | /snap/snapd/23771 |
| snapfuse | 52224 | 52224 | 0 | 100% | /snap/snapd/24505 |
| tmpfs | 809692 | 16 | 809676 | 1% | /run/user/1000 |
| snapfuse | 75776 | 75776 | 9 | 100% | /snap/core22/1981 |

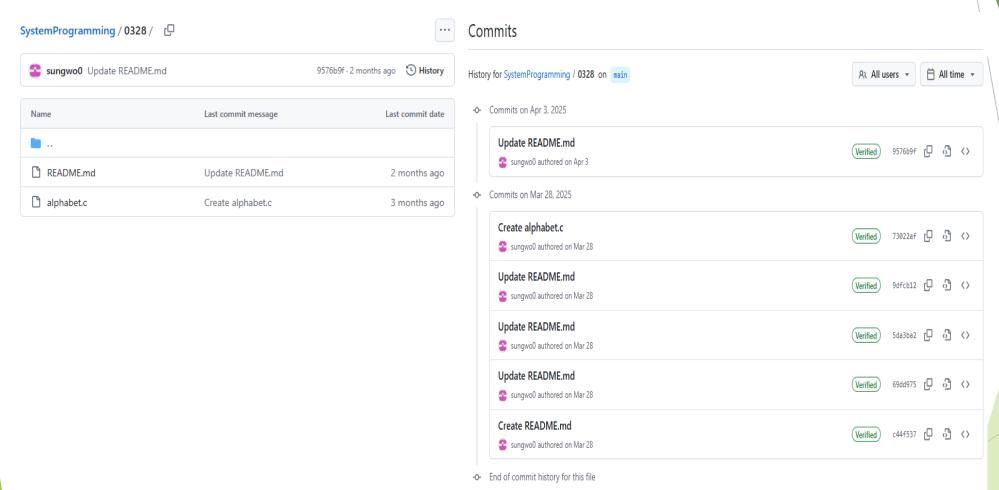
```
stud@DESKTOP-7DQM460:~/ppt$ ps
PID TTY TIME CMD
388 pts/0 00:00:00 bash
915 pts/0 00:00:00 man
923 pts/0 00:00:00 pager
1680 pts/0 00:00:00 ps
```

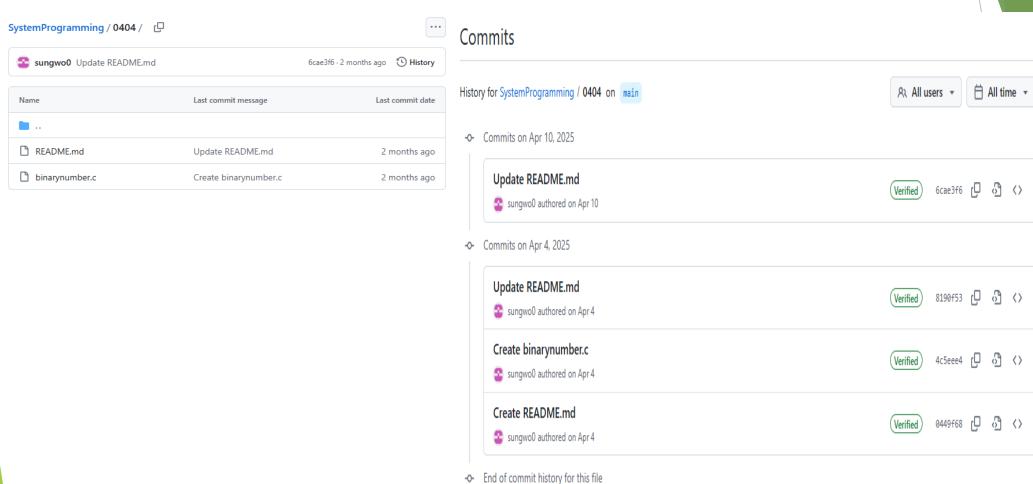
stud@DESKTOP-7DQM460:~/ppt\$ du
12

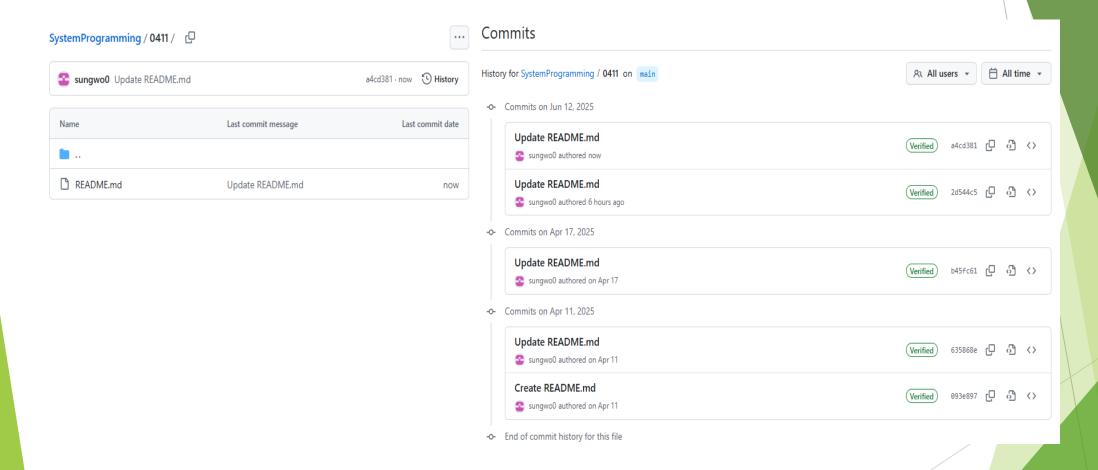


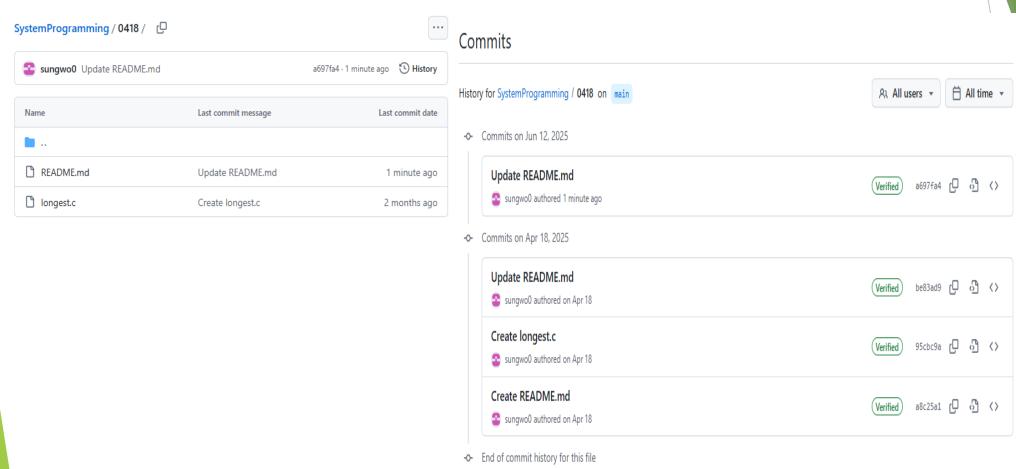


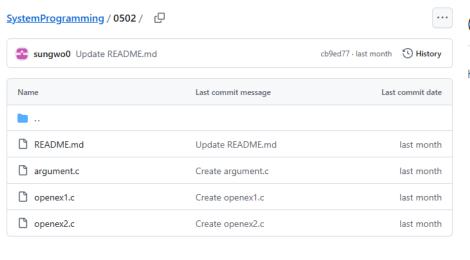


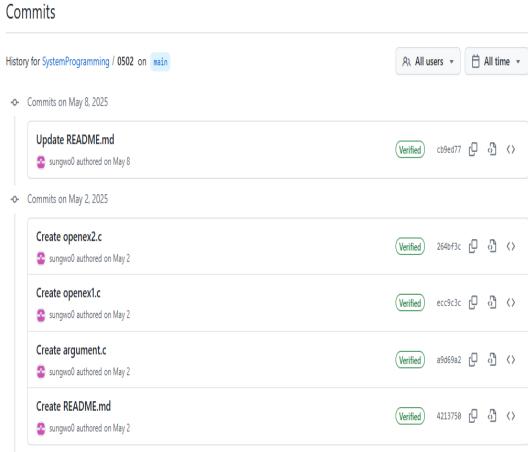




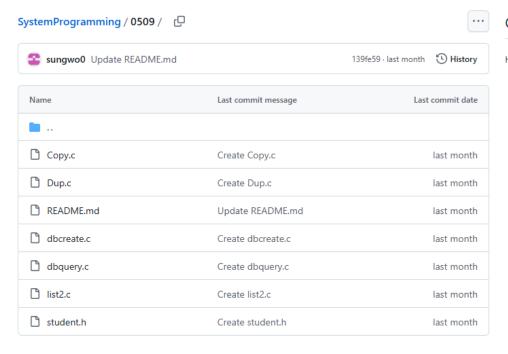


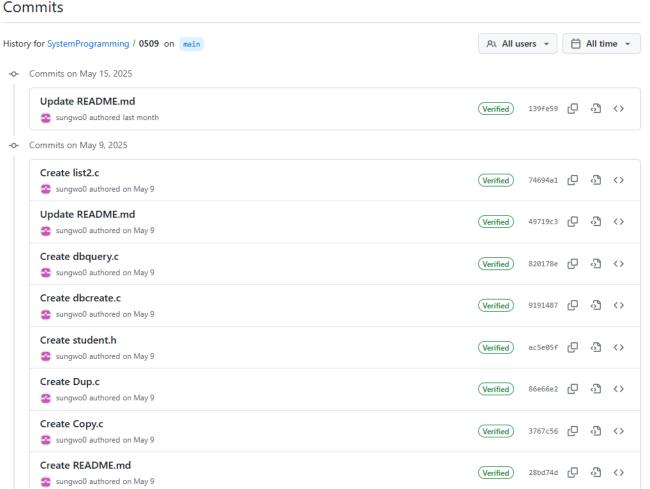


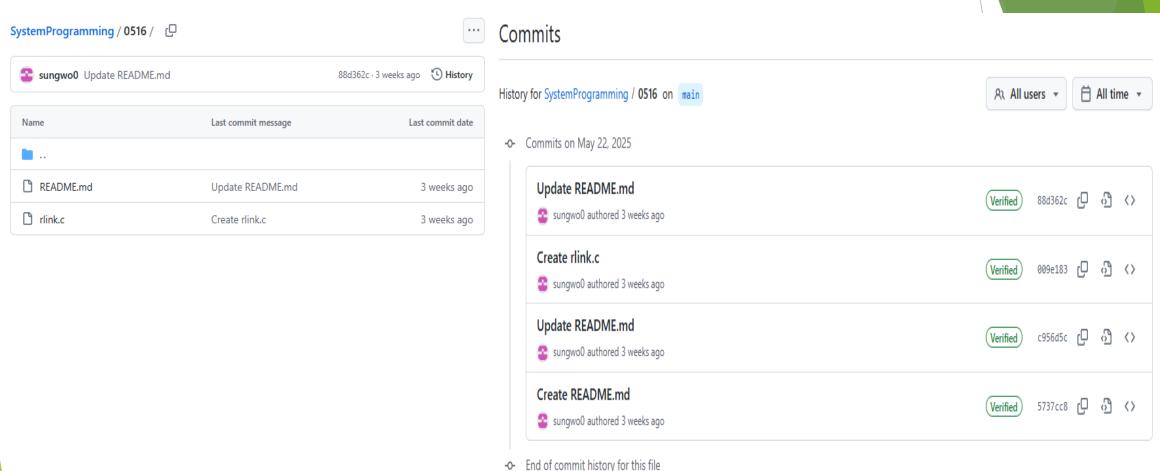


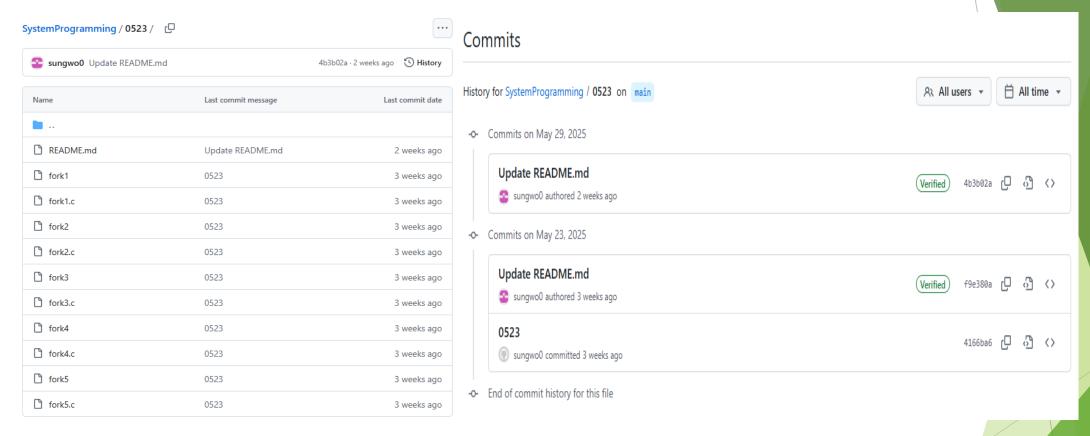


-O- End of commit history for this file









점수: 15 + 12 = 27

- ▶ 우분트 내에서 다양한 코드들을 활용해서 정리를 하였기때문에 **15**점을 생각하 였습니다.
- ▶ 6주차 및 7주차를 늦게 제출 하였기 때문에 3점을 깐 12점을 생각하였습니다.