시스템프로그래밍 코드 정리 및 깃허브 정리

https://github.com/sungwo0/SystemProgramming

소프트웨어학과 2020875029 신성우

코드 정리

```
stud@DESKTOP-7DQM46O:~/ppt$ date
Thu Jun 12 09:48:23 KST 2025
```

```
stud@DESKTOP-7DQM46O:~/ppt$ hostname
DESKTOP-7DQM46O
```

```
stud@DESKTOP-7DQM46O:~/ppt$ uname
Linux
```

```
stud@DESKTOP-7DQM46O:~/ppt$ uname -a
Linux DESKTOP-7DQM46O 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-7DQM46O:~/ppt$ whoami
stud
```

```
stud@DESKTOP-7DQM46O:~/ppt$ who
stud     pts/1        2025-06-12 09:35
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls
1.c
```

```
stud@DESKTOP-7DQM46O:~/ppt$ which ls
/usr/bin/ls
```

```
stud@DESKTOP-7DQM46O:~/ppt$ pwd
/home/stud/ppt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ mkdir test
stud@DESKTOP-7DQM46O:~/ppt$ ls
1.c  test
```

```
stud@DESKTOP-7DQM46O:~/ppt$ rmdir test
stud@DESKTOP-7DQM46O:~/ppt$ ls
1.c
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls /
bin                etc   lib.usr-is-merged  mnt   run                srv  var
bin.usr-is-merged  home  lib64              opt   sbin               sys
boot               init  lost+found        proc  sbin.usr-is-merged tmp
dev                lib   media              root  snap               usr
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls ~
0321  ppt  snap  software
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls -a
.  ..  1.c
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls -s
total 0
0 1.c
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ls -l
total 0
-rw-r--r-- 1 stud stud 0 Jun 12 09:36 1.c
```

```
stud@DESKTOP-7DQM46O:~/ppt$ touch test.txt
stud@DESKTOP-7DQM46O:~/ppt$ ls
1.c  test.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ cat > test1.txt
Hello World!
stud@DESKTOP-7DQM46O:~/ppt$ ls
1.c  test.txt  test1.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ cat test1.txt
Hello World!
```

```
stud@DESKTOP-7DQM46O:~/ppt$ wc test1.txt
 1  2 13 test1.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ cp test1.txt test2.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ mv test2.txt test3.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ rm test3.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ ln test1.txt text2.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ ln -s test1.txt test2.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ file test.txt
test.txt: empty
stud@DESKTOP-7DQM46O:~/ppt$ file test1.txt
test1.txt: ASCII text
```

```
stud@DESKTOP-7DQM46O:~/ppt$ chmod g+w,o+rw test1.txt
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ touch test1.txt
stud@DESKTOP-7DQM46O:~/ppt$ ls -l test1.txt
-rw-rw-rw- 2 stud stud 13 Jun 12 14:16 test1.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen
 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
       valid_lft forever preferred_lft forever
    inet 10.255.255.254/32 brd 10.255.255.254 scope global lo
       valid_lft forever preferred_lft forever
```

```
stud@DESKTOP-7DQM46O:~/ppt$ find . -user stud -print
.
./1.c
./test2.txt
./test.txt
./test1.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ find ~ -type l -print
/home/stud/snap/tree/current
/home/stud/ppt/test2.txt
```

```
stud@DESKTOP-7DQM46O:~/ppt$ grep -v "Python" test4.txt
Bob is a fan of JavaScript.
Java and C++ are also widely used.
EOF
```

```
stud@DESKTOP-7DQM46O:~/ppt$ grep "Python" test4.txt
Alice loves programming in Python.
Charlie prefers Python over Java.
Python is popular among developers.
```

```
stud@DESKTOP-7DQM46O:~/ppt$ grep -n "Python" test4.txt
1:Alice loves programming in Python.
3:Charlie prefers Python over Java.
4:Python is popular among developers.
```

```
stud@DESKTOP-7DQM46O:~/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.
EOF
```

```
stud@DESKTOP-7DQM46O:~/ppt$ sort names.txt
Alice
Bob
Charlie
David
Eve
```

```
stud@DESKTOP-7DQM46O:~/ppt$ sort -r names.txt
Eve
David
Charlie
Bob
Alice
```

```
stud@DESKTOP-7DQM46O:~/ppt$ sort -n numbers.txt
5
7
13
42
99
```

```
stud@DESKTOP-7DQM46O:~/ppt$ sort -nr numbers.txt
99
42
13
7
5
```

```
stud@DESKTOP-7DQM46O:~/ppt$ cmp file1.txt file2.txt
stud@DESKTOP-7DQM46O:~/ppt$ cmp file1.txt file3.txt
file1.txt file3.txt differ: byte 28, line 2
```

```
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ diff -q old.txt new.txt
Files old.txt and new.txt differ
```

```
stud@DESKTOP-7DQM46O:~/ppt$ diff old.txt new.txt
2c2
< This is the first file.
---
> This is the second file.
3a4
> And one more line.
```

```
stud@DESKTOP-7DQM46O:~/ppt$ split -l 3 sample.txt part_
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ cat part_aa part_ab > part_aab
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ paste -s part_aa part_ab > part_aaab
stud@DESKTOP-7DQM46O:~/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
```

```
stud@DESKTOP-7DQM46O:~/ppt$ df
Filesystem      1K-blocks       Used Available Use% Mounted on
none              4048472          0   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          0   4048472   0% /usr/lib/wsl/lib
rootfs            4044980       2372   4042608   1% /init
none              4048472        792   4047680   1% /run
none              4048472          0   4048472   0% /run/lock
none              4048472          0   4048472   0% /run/shm
tmpfs                4096          0      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         0 100% /snap/core22/1963
snapfuse             4608       4608         0 100% /snap/tree/54
snapfuse            45568      45568         0 100% /snap/snapd/23771
snapfuse            52224      52224         0 100% /snap/snapd/24505
tmpfs              809692         16    809676   1% /run/user/1000
snapfuse            75776      75776         0 100% /snap/core22/1981
```

```
stud@DESKTOP-7DQM46O:~/ppt$ stat sample.txt
  File: sample.txt
  Size: 71              Blocks: 8          IO Block: 4096   regular file
Device: 8,32    Inode: 50838       Links: 1
Access: (0644/-rw-r--r--)  Uid: ( 1000/    stud)   Gid: ( 1000/    stud)
Access: 2025-06-12 14:46:14.149853891 +0900
Modify: 2025-06-12 14:46:10.983789825 +0900
Change: 2025-06-12 14:46:10.983789825 +0900
 Birth: 2025-06-12 14:46:10.983789825 +0900
```

```
stud@DESKTOP-7DQM46O:~/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-7DQM46O:~/ppt$ du
12      .
```

점수 : 15

- 우분트 내에서 다양한 코드들을 활용해서 정리를 하였기때문에 이 점수를 생각하였습니다.

1주차 디렉토리 및 히스토리

SystemProgramming / 0307 /

sungwo0 Update README.md — 2abab74 · 3 months ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	3 months ago

Commits

History for SystemProgramming / 0307 on main — All users — All time

Commits on Mar 20, 2025

Update README.md sungwo0 authored on Mar 20	Verified	2abab74
Update README.md sungwo0 authored on Mar 20	Verified	425612c
Update README.md sungwo0 authored on Mar 20	Verified	f9fb1c9
Update README.md sungwo0 authored on Mar 20	Verified	9b0ddc9
Update README.md sungwo0 authored on Mar 20	Verified	69405d9
Update README.md sungwo0 authored on Mar 20	Verified	1c69a73
Update README.md sungwo0 authored on Mar 20	Verified	26852e1
Update README.md sungwo0 authored on Mar 20	Verified	848b165
Update README.md sungwo0 authored on Mar 20	Verified	ac5e7fc
Update README.md sungwo0 authored on Mar 20	Verified	94ef554
Update README.md sungwo0 authored on Mar 20	Verified	087883f

2주차 디렉토리 및 히스토리

SystemProgramming / 0314 /

sungwo0 Update README.md — a11ceb9 · 3 months ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	3 months ago

Commits

History for SystemProgramming / 0314 on main

All users — All time

Commits on Mar 20, 2025

Update README.md sungwo0 authored on Mar 20	Verified	a11ceb9
Update README.md sungwo0 authored on Mar 20	Verified	f4cd4ff
Update README.md sungwo0 authored on Mar 20	Verified	fd8ed22
Update README.md sungwo0 authored on Mar 20	Verified	d2693db
Update README.md sungwo0 authored on Mar 20	Verified	74e89f4
Update README.md sungwo0 authored on Mar 20	Verified	a04f133
Update README.md sungwo0 authored on Mar 20	Verified	79b2269
Update README.md sungwo0 authored on Mar 20	Verified	47e7753
Update README.md sungwo0 authored on Mar 20	Verified	6328053
Update README.md sungwo0 authored on Mar 20	Verified	328bde3
Update README.md sungwo0 authored on Mar 20	Verified	0534114

3주차 디렉토리 및 히스토리

SystemProgramming / 0321 /

sungwo0 Update README.md — 8d6dbb3 · 3 months ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	3 months ago
hello.c	Create hello.c	3 months ago
student.c	Create student.c	3 months ago

Commits

History for SystemProgramming / 0321 / README.md on main

All users — All time

Commits on Mar 27, 2025

- Update README.md — sungwo0 authored on Mar 27 — Verified — 8d6dbb3
- Update README.md — sungwo0 authored on Mar 27 — Verified — 2aa8912
- Update README.md — sungwo0 authored on Mar 27 — Verified — d7d8bc4
- Update README.md — sungwo0 authored on Mar 27 — Verified — 8fc1ca5

Commits on Mar 21, 2025

- Update README.md — sungwo0 authored on Mar 21 — Verified — cc43379
- Update README.md — sungwo0 authored on Mar 21 — Verified — f0e1765
- Create README.md — sungwo0 authored on Mar 21 — Verified — 291b54e

End of commit history for this file

4주차 디렉토리 및 히스토리

SystemProgramming / 0328 /

sungwo0 Update README.md — 9576b9f · 2 months ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	2 months ago
alphabet.c	Create alphabet.c	3 months ago

Commits

History for SystemProgramming / 0328 on main

All users — All time

Commits on Apr 3, 2025

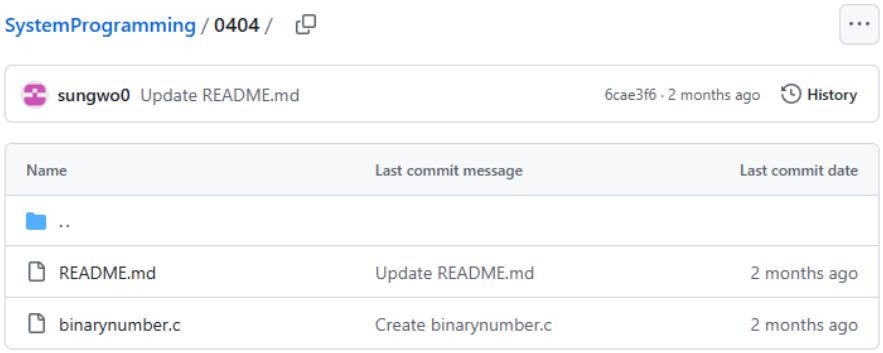
- Update README.md — sungwo0 authored on Apr 3 — Verified — 9576b9f

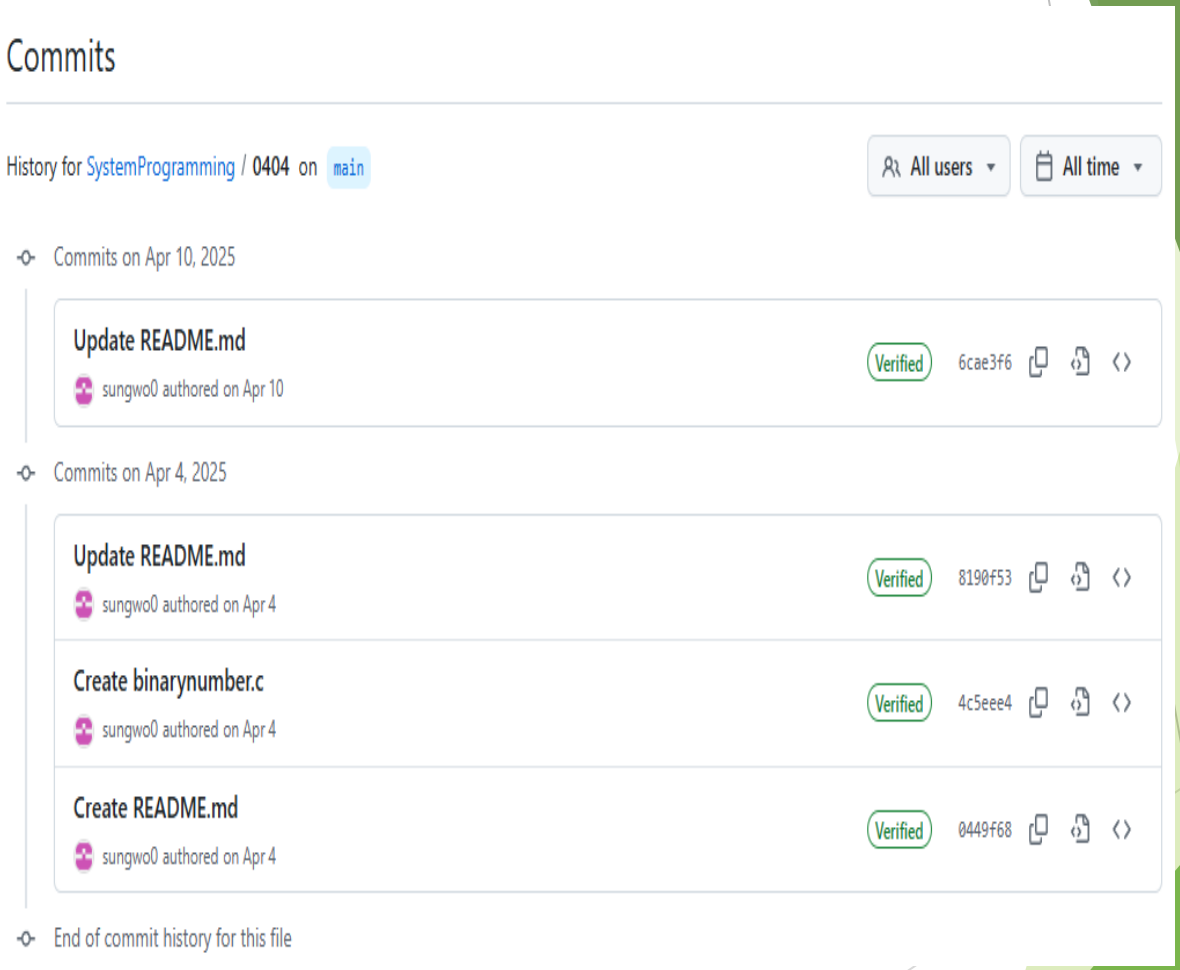
Commits on Mar 28, 2025

- Create alphabet.c — sungwo0 authored on Mar 28 — Verified — 73022af
- Update README.md — sungwo0 authored on Mar 28 — Verified — 9dfcb12
- Update README.md — sungwo0 authored on Mar 28 — Verified — 5da3ba2
- Update README.md — sungwo0 authored on Mar 28 — Verified — 69dd975
- Create README.md — sungwo0 authored on Mar 28 — Verified — c44f537

End of commit history for this file

5주차 디렉토리 및 히스토리





6주차 디렉토리 및 히스토리

SystemProgramming / 0411 /

sungwo0 Update README.md a4cd381 · now History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	now

Commits

History for SystemProgramming / 0411 on main

All users All time

Commits on Jun 12, 2025

- Update README.md — sungwo0 authored now — Verified — a4cd381
- Update README.md — sungwo0 authored 6 hours ago — Verified — 2d544c5

Commits on Apr 17, 2025

- Update README.md — sungwo0 authored on Apr 17 — Verified — b45fc61

Commits on Apr 11, 2025

- Update README.md — sungwo0 authored on Apr 11 — Verified — 635868e
- Create README.md — sungwo0 authored on Apr 11 — Verified — 093e897

End of commit history for this file

7주차 디렉토리 및 히스토리

SystemProgramming / 0418 /

sungwo0 Update README.md — a697fa4 · 1 minute ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	1 minute ago
longest.c	Create longest.c	2 months ago

Commits

History for SystemProgramming / 0418 on main

All users — All time

Commits on Jun 12, 2025

Update README.md
sungwo0 authored 1 minute ago — Verified — a697fa4

Commits on Apr 18, 2025

Update README.md
sungwo0 authored on Apr 18 — Verified — be83ad9

Create longest.c
sungwo0 authored on Apr 18 — Verified — 95cbc9a

Create README.md
sungwo0 authored on Apr 18 — Verified — a8c25a1

End of commit history for this file

9주차 디렉토리 및 히스토리

SystemProgramming / 0502 /

sungwo0 Update README.md — cb9ed77 · last month — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	last month
argument.c	Create argument.c	last month
openex1.c	Create openex1.c	last month
openex2.c	Create openex2.c	last month

Commits

History for SystemProgramming / 0502 on main

All users · All time

Commits on May 8, 2025

Update README.md
sungwo0 authored on May 8 — Verified — cb9ed77

Commits on May 2, 2025

Create openex2.c
sungwo0 authored on May 2 — Verified — 264bf3c

Create openex1.c
sungwo0 authored on May 2 — Verified — ecc9c3c

Create argument.c
sungwo0 authored on May 2 — Verified — a9d69a2

Create README.md
sungwo0 authored on May 2 — Verified — 4213750

End of commit history for this file

10주차 디렉토리 및 히스토리

SystemProgramming / 0509 /

sungwo0 Update README.md — 139fe59 · last month — History

Name	Last commit message	Last commit date
..		
Copy.c	Create Copy.c	last month
Dup.c	Create Dup.c	last month
README.md	Update README.md	last month
dbcreate.c	Create dbcreate.c	last month
dbquery.c	Create dbquery.c	last month
list2.c	Create list2.c	last month
student.h	Create student.h	last month

Commits

History for SystemProgramming / 0509 on main — All users — All time

Commits on May 15, 2025

- **Update README.md** — sungwo0 authored last month — Verified — 139fe59

Commits on May 9, 2025

- **Create list2.c** — sungwo0 authored on May 9 — Verified — 74694a1
- **Update README.md** — sungwo0 authored on May 9 — Verified — 49719c3
- **Create dbquery.c** — sungwo0 authored on May 9 — Verified — 820178e
- **Create dbcreate.c** — sungwo0 authored on May 9 — Verified — 9191487
- **Create student.h** — sungwo0 authored on May 9 — Verified — ac5e05f
- **Create Dup.c** — sungwo0 authored on May 9 — Verified — 86e66e2
- **Create Copy.c** — sungwo0 authored on May 9 — Verified — 3767c56
- **Create README.md** — sungwo0 authored on May 9 — Verified — 28bd74d

11주차 디렉토리 및 히스토리

SystemProgramming / 0516 /

sungwo0 Update README.md — 88d362c · 3 weeks ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	3 weeks ago
rlink.c	Create rlink.c	3 weeks ago

Commits

History for SystemProgramming / 0516 on main

All users — All time

Commits on May 22, 2025

- **Update README.md** — sungwo0 authored 3 weeks ago — Verified — 88d362c
- **Create rlink.c** — sungwo0 authored 3 weeks ago — Verified — 009e183
- **Update README.md** — sungwo0 authored 3 weeks ago — Verified — c956d5c
- **Create README.md** — sungwo0 authored 3 weeks ago — Verified — 5737cc8

End of commit history for this file

12주차 디렉토리 및 히스토리

SystemProgramming / 0523 /

sungwo0 Update README.md — 4b3b02a · 2 weeks ago — History

Name	Last commit message	Last commit date
..		
README.md	Update README.md	2 weeks ago
fork1	0523	3 weeks ago
fork1.c	0523	3 weeks ago
fork2	0523	3 weeks ago
fork2.c	0523	3 weeks ago
fork3	0523	3 weeks ago
fork3.c	0523	3 weeks ago
fork4	0523	3 weeks ago
fork4.c	0523	3 weeks ago
fork5	0523	3 weeks ago
fork5.c	0523	3 weeks ago

Commits

History for SystemProgramming / 0523 on main

All users — All time

Commits on May 29, 2025

Update README.md
sungwo0 authored 2 weeks ago — Verified — 4b3b02a

Commits on May 23, 2025

Update README.md
sungwo0 authored 3 weeks ago — Verified — f9e380a

0523
sungwo0 committed 3 weeks ago — 4166ba6

End of commit history for this file

점수 : 12

- 6주차 및 7주차를 늦게 제출 하였기 때문에 3점을 깐 12점을 생각하였습니다.