

# Xilinx Zynq FPGA, TI DSP, MCU 기반의 프로그래밍 및 회로 설계 전문가 과정

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## 20일차 내용 복습

```
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ vi dup.c
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ vi a.txt
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ./a.out
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ vi dup.c
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ cat mytar.c>ccc
cat: mytar.c: No such file or directory
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ cat mytar.c > ccc
cat: mytar.c: No such file or directory
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ cat book2.c > ccc
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ cat ccc
#include <stdio.h>

int main(void)
{
    int array1[2][2]={1,2},{3,4}}, array2[2][2]={5,6},{7,8}};
    int result[2][2];

    result[0][0] = array1[0][0]*array2[0][0] + array1[0][1]*array2[1][0];
    result[0][1] = array1[0][0]*array2[0][1] + array1[0][1]*array2[1][1];
    result[1][0] = array1[1][0]*array2[0][0] + array1[1][1]*array2[1][0];
    result[1][1] = array1[1][0]*array2[0][1] + array1[1][1]*array2[1][1];

    printf("%d %d %d %d\n",result[0][0],result[0][1],result[1][0],result[1][1]);

    return 0;
}
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ cat ccc
#include <stdio.h>

int main(void)
{
    int array1[2][2]={1,2},{3,4}}, array2[2][2]={5,6},{7,8}};
    int result[2][2];

    result[0][0] = array1[0][0]*array2[0][0] + array1[0][1]*array2[1][0];
    result[0][1] = array1[0][0]*array2[0][1] + array1[0][1]*array2[1][1];
    result[1][0] = array1[1][0]*array2[0][0] + array1[1][1]*array2[1][0];
    result[1][1] = array1[1][0]*array2[0][1] + array1[1][1]*array2[1][1];

    printf("%d %d %d %d\n",result[0][0],result[0][1],result[1][0],result[1][1]);

    return 0;
}
```

# 01



20일차 내용 복습

```
alswnqodri@alswnqodri-900X3K: ~/Homework/minjukim
#include <unistd.h>
#include <fcntl.h>
#include <stdio.h>

int main(void)
{
    int fd;
    fd = open("a.txt", O_WRONLY|O_CREAT|O_TRUNC, 0644);
    close(1);
    dup(fd);
    printf("출력 될 까?\n");
    return 0;
}
```

[illegible]



## 20일차 내용 복습

```
alswnqdri@alswnqdri-900X3K: ~/Homework/minjukim
Linux Programmer's Manual
ATOI(3)
NAME
    atoi, atol, atoll - convert a string to an integer
SYNOPSIS
    #include <stdlib.h>

    int atoi(const char *nptr);
    long atol(const char *nptr);
    long long atoll(const char *nptr);

    Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

    atoll():
        _BSD_SOURCE || _SVID_SOURCE || _XOPEN_SOURCE >= 600 || _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L;
        or _CC -std=c99
DESCRIPTION
    The atoi() function converts the initial portion of the string pointed to by nptr to int. The behavior is the same as strtol(nptr, NULL, 10); except that atoi() does not detect errors.

    The atol() and atoll() functions behave the same as atoi(), except that they convert the initial portion of the string to their return type of long or long long.
RETURN VALUE
    The converted value.
ATTRIBUTES
    For an explanation of the terms used in this section, see attributes(7).

    Table:
    +-----+-----+-----+
    | Interface | Attribute | Value |
    +-----+-----+-----+
    | atoi(), atol(), atoll() | Thread safety | MT-Safe locale |
    +-----+-----+-----+
CONFORMING TO
    POSIX.1-2001, POSIX.1-2008, C99, SVr4, 4.3BSD. C89 and POSIX.1-1996 include the functions atoi() and atol() only.
NOTES
    Linux libc provided atoq() as an obsolete name for atoll(); atoq() is not provided by glibc.
SEE ALSO
    atof(3), strtod(3), strtol(3), strtoul(3)
COLOPHON
    This page is part of release 4.04 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at http://www.kernel.org/doc/man-pages/.
GNU
    Manual page atoi(3) line 1/52 (END) (press h for help or q to quit)
2015-08-08
ATOI(3)
```



## 19일자 내용 복습

```
alswnqodrl@alswnqodrl-900X3K: ~/Homework/minjukim
alswnqo+ 2008 1459 0 09:54 ? 00:00:00 /usr/lib/gvfs/gvfs-gphoto2-volum
alswnqo+ 2045 1459 0 09:54 ? 00:00:00 /usr/lib/gvfs/gvfsd-trash --spaw
root 2076 983 0 09:54 ? 00:00:00 /sbin/dhclient -d -q -sf /usr/li
alswnqo+ 2084 1459 0 09:54 ? 00:00:00 /usr/lib/gvfs/gvfsd-metadata
nobody 2114 983 0 09:54 ? 00:00:00 /usr/sbin/dnsmasq --no-resolv --
alswnqo+ 2190 1459 0 09:54 ? 00:00:00 /usr/lib/x86_64-linux-gnu/notify
avahi 2218 1 0 09:54 ? 00:00:01 avahi-daemon: running [alswnqodr
avahi 2220 2218 0 09:54 ? 00:00:00 avahi-daemon: chroot helper
alswnqo+ 2602 1749 0 09:54 ? 00:00:01 zeitgeist-datahub
alswnqo+ 2609 1459 0 09:54 ? 00:00:00 /bin/sh -c /usr/lib/x86_64-linux
alswnqo+ 2613 2609 0 09:54 ? 00:00:00 /usr/bin/zeitgeist-daemon
alswnqo+ 2620 1459 0 09:54 ? 00:00:00 /usr/lib/x86_64-linux-gnu/zeitge
alswnqo+ 2787 1749 0 09:55 ? 00:00:00 update-notifier
alswnqo+ 2822 1749 0 09:56 ? 00:00:00 /usr/lib/x86_64-linux-gnu/deja-d
root 2994 1 0 09:58 ? 00:00:00 /usr/sbin/cupsd -l
root 2995 1 0 09:58 ? 00:00:00 /usr/sbin/cups-browsed
lp 2996 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
lp 2997 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
lp 2998 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
alswnqo+ 3488 1459 3 10:04 ? 00:06:38 /usr/lib/firefox/firefox
alswnqo+ 3546 3488 0 10:04 ? 00:06:13 /usr/lib/firefox/firefox -conten
alswnqo+ 3739 3488 3 10:04 ? 00:06:30 /usr/lib/firefox/firefox -conten
alswnqo+ 3787 1459 0 10:04 ? 00:00:39 /usr/lib/gnome-terminal/gnome-te
alswnqo+ 3793 3787 0 10:04 pts/2 00:00:00 bash
alswnqo+ 3920 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-network --sp
alswnqo+ 3935 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-smb-browse -
alswnqo+ 3947 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-dnssd --spaw
root 5451 2 0 12:13 ? 00:00:01 [kworker/u8:3]
root 5815 2 0 12:30 ? 00:00:00 [kworker/u9:3]
root 6102 2 0 12:38 ? 00:00:00 [scsi_eh_4]
root 6103 2 0 12:38 ? 00:00:00 [scsi_tm_f_4]
root 6104 2 0 12:38 ? 00:00:00 [usb-storage]
root 6467 2 0 13:02 ? 00:00:00 [kworker/1:1]
root 6486 2 0 13:02 ? 00:00:00 [kworker/2:0]
root 6490 2 0 13:03 ? 00:00:00 [kworker/u8:2]
root 6519 2 0 13:08 ? 00:00:00 [kworker/2:1]
root 6523 2 0 13:08 ? 00:00:00 [kworker/u9:0]
root 6529 2 0 13:09 ? 00:00:00 [kworker/u8:0]
root 6613 2 0 13:13 ? 00:00:00 [kworker/u9:1]
root 6614 2 0 13:13 ? 00:00:00 [kworker/3:2]
alswnqo+ 6663 1459 0 13:15 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
alswnqo+ 6674 1459 0 13:15 ? 00:00:00 /usr/bin/unity-scope-loader appl
alswnqo+ 6676 1459 0 13:15 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
root 6768 2 0 13:18 ? 00:00:00 [kworker/0:1]
root 6825 2 0 13:20 ? 00:00:00 [kworker/1:0]
root 6838 2 0 13:21 ? 00:00:00 [kworker/2:2]
root 6899 2 0 13:23 ? 00:00:00 [kworker/3:1]
root 6900 2 0 13:24 ? 00:00:00 [kworker/0:2]
root 6928 2 0 13:24 ? 00:00:00 [kworker/u9:4]
root 6971 2 0 13:29 ? 00:00:00 [kworker/3:0]
root 6974 2 0 13:29 ? 00:00:00 [kworker/0:0]
root 6983 2 0 13:29 ? 00:00:00 [kworker/u8:1]
root 6989 2 0 13:29 ? 00:00:00 [kworker/2:3]
root 7004 2 0 13:31 ? 00:00:00 [kworker/1:2]
alswnqo+ 7006 3793 0 13:31 pts/2 00:00:00 ps -ef
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$
```





## 19일차 내용 복습

```

alswnqo+ 2602 1749 0 09:54 ? 00:00:01 zeitgeist-datahub
alswnqo+ 2609 1459 0 09:54 ? 00:00:00 /bin/sh -c /usr/lib/x86_64-linux
alswnqo+ 2613 2609 0 09:54 ? 00:00:00 /usr/bin/zeitgeist-daemon
alswnqo+ 2620 1459 0 09:54 ? 00:00:00 /usr/lib/x86_64-linux-gnu/zeitge
alswnqo+ 2787 1749 0 09:55 ? 00:00:00 update-notifier
alswnqo+ 2822 1749 0 09:56 ? 00:00:00 /usr/lib/x86_64-linux-gnu/deja-d
root 2994 1 0 09:58 ? 00:00:00 /usr/sbin/cupsd -l
root 2995 1 0 09:58 ? 00:00:00 /usr/sbin/cups-browsed
lp 2996 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
lp 2997 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
lp 2998 2994 0 09:58 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
alswnqo+ 3488 1459 3 10:04 ? 00:06:38 /usr/lib/firefox/firefox
alswnqo+ 3546 3488 0 10:04 ? 00:00:13 /usr/lib/firefox/firefox -conten
alswnqo+ 3739 3488 3 10:04 ? 00:06:30 /usr/lib/firefox/firefox -conten
alswnqo+ 3787 1459 0 10:04 ? 00:00:39 /usr/lib/gnome-terminal/gnome-te
alswnqo+ 3793 3787 0 10:04 pts/2 00:00:00 bash
alswnqo+ 3920 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-network --sp
alswnqo+ 3935 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-smb-browse -
alswnqo+ 3947 1459 0 10:13 ? 00:00:00 /usr/lib/gvfs/gvfsd-dnssd --spaw
root 5451 2 0 12:13 ? 00:00:01 [kworker/u8:3]
root 5815 2 0 12:30 ? 00:00:00 [kworker/u9:3]
root 6102 2 0 12:38 ? 00:00:00 [scsi_eh 4]
root 6103 2 0 12:38 ? 00:00:00 [scsi_tmf 4]
root 6104 2 0 12:38 ? 00:00:00 [usb-storage]
root 6467 2 0 13:02 ? 00:00:00 [kworker/1:1]
root 6486 2 0 13:02 ? 00:00:00 [kworker/2:0]
root 6490 2 0 13:03 ? 00:00:00 [kworker/u8:2]
root 6519 2 0 13:08 ? 00:00:00 [kworker/2:1]
root 6523 2 0 13:08 ? 00:00:00 [kworker/u9:0]
root 6529 2 0 13:09 ? 00:00:00 [kworker/u8:0]
root 6613 2 0 13:13 ? 00:00:00 [kworker/u9:1]
root 6614 2 0 13:13 ? 00:00:00 [kworker/3:2]
alswnqo+ 6663 1459 0 13:15 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
alswnqo+ 6674 1459 0 13:15 ? 00:00:00 /usr/bin/unity-scope-loader appl
alswnqo+ 6676 1459 0 13:15 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
root 6768 2 0 13:18 ? 00:00:00 [kworker/0:1]
root 6825 2 0 13:20 ? 00:00:00 [kworker/1:0]
root 6838 2 0 13:21 ? 00:00:00 [kworker/2:2]
root 6899 2 0 13:23 ? 00:00:00 [kworker/3:1]
root 6900 2 0 13:24 ? 00:00:00 [kworker/0:2]
root 6928 2 0 13:24 ? 00:00:00 [kworker/u9:4]
root 6971 2 0 13:29 ? 00:00:00 [kworker/3:0]
root 6974 2 0 13:29 ? 00:00:00 [kworker/0:0]
root 6983 2 0 13:29 ? 00:00:00 [kworker/u8:1]
root 6989 2 0 13:29 ? 00:00:00 [kworker/2:3]
root 7004 2 0 13:31 ? 00:00:00 [kworker/1:2]
alswnqo+ 7006 3793 0 13:31 pts/2 00:00:00 ps -ef
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ps -ef|grep bash
alswnqo+ 3793 3787 0 10:04 pts/2 00:00:00 bash
alswnqo+ 7044 3793 0 13:32 pts/2 00:00:00 grep --color=auto bash
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
alswnqo+ 3793 3787 0 10:04 pts/2 00:00:00 bash
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ps -ef|grep bash|grep -v grep|
awk '{print $2}'
3793
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$

```

The image shows a Linux desktop environment with a terminal window open. The terminal displays the output of a file listing command, showing various files and directories. The output includes file permissions, owner, size, date, and file name. The terminal also shows the command 'cat /etc/passwd' and its output, which lists system users like 'root', 'lp', 'nobody', and regular users like 'alwynqodrl' and 'alwynqodrl-900X3K'.

```

alwynqodrl@alwynqodrl-900X3K: ~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
alwynq+ 3793 3787 0 10:04 pts/2 00:00:00 bash
alwynq+ 7122 3787 0 13:41 pts/1 00:00:00 bash
alwynqodrl@alwynqodrl-900X3K: ~/Homework/minjukim$

alwynqodrl@alwynqodrl-900X3K: ~/Homework/minjukim$ ls -la
total 12
drwxr-xr-x 2 alwynqodrl alwynqodrl 4096 Nov 14 10:04 .
drwxr-xr-x 1 alwynqodrl alwynqodrl 4096 Nov 14 10:04 ..
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 book2.c
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 implementation.c
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 cat
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 cat_beaucher.c
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 data1.c
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 data1.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 data2.c
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 data2.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp1.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp2.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp3.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp4.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp5.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp6.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp7.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp8.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp9.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp10.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp11.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp12.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp13.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp14.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp15.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp16.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp17.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp18.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp19.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp20.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp21.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp22.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp23.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp24.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp25.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp26.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp27.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp28.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp29.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp30.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp31.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp32.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp33.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp34.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp35.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp36.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp37.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp38.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp39.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp40.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp41.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp42.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp43.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp44.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp45.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp46.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp47.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp48.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp49.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp50.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp51.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp52.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp53.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp54.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp55.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp56.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp57.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp58.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp59.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp60.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp61.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp62.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp63.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp64.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp65.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp66.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp67.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp68.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp69.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp70.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp71.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp72.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp73.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp74.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp75.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp76.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp77.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp78.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp79.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp80.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp81.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp82.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp83.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp84.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp85.txt
-rw-r--r-- 1 alwynqodrl alwynqodrl  100 Nov 14 10:04 temp86.txt
```



# 01

## 19일자 내용 복습

```
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim
tail: cannot open '/var/log/messages' for reading: No such file or directory
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ tail -n -1 book2.c
}
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ tail -n -15 book2.c

int main(void)
{
    int array1[2][2]={1,2},{3,4}, array2[2][2]={5,6},{7,8};
    int result[2][2];

    result[0][0] = array1[0][0]*array2[0][0] + array1[0][1]*array2[1][0];
    result[0][1] = array1[0][0]*array2[0][1] + array1[0][1]*array2[1][1];
    result[1][0] = array1[1][0]*array2[0][0] + array1[1][1]*array2[1][0];
    result[1][1] = array1[1][0]*array2[0][1] + array1[1][1]*array2[1][1];

    printf("%d %d %d %d\n",result[0][0],result[0][1],result[1][0],result[1][1]);
}

return 0;
}
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ vi lin.c
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ gcc lin.c
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ ./a.out
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$

alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ ps -ef|grep bash
alwnqodrl 3793 3787 0 10:04 pts/2 00:00:00 bash
alwnqodrl 7044 3793 0 13:32 pts/2 00:00:00 grep --color=auto bash
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
alwnqodrl 3793 3787 0 10:04 pts/2 00:00:00 bash
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ ps -ef|grep bash|grep -v grep|awk '{print $2}'
3793
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
alwnqodrl 3793 3787 0 10:04 pts/2 00:00:00 bash
alwnqodrl@alwnqodrl-900X3K: ~/Homework/minjukim$
```

# 01

## 19일자 내용 복습

```
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ tail -n -15 book2.c
int main(void)
{
    int array1[2][2]={1,2},{3,4}}, array2[2][2]={5,6},{7,8}};
    int result[2][2];

    result[0][0] = array1[0][0]*array2[0][0] + array1[0][1]*array2[1][0];
    result[0][1] = array1[0][0]*array2[0][1] + array1[0][1]*array2[1][1];
    result[1][0] = array1[1][0]*array2[0][0] + array1[1][1]*array2[1][0];
    result[1][1] = array1[1][0]*array2[0][1] + array1[1][1]*array2[1][1];

    printf("%d %d %d %d\n",result[0][0],result[0][1],result[1][0],result[1][1]);

    return 0;
}
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ vi lin.c
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ gcc lin.c
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ./a.out
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ ./a.out mbr.txt
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$ xxd mbr.txt
00000000: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000010: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000020: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000030: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000040: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000050: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000060: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000070: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000080: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000090: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000b0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000c0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000d0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000e0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000000f0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000100: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000110: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000120: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000130: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000140: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000150: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000160: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000170: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000180: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000190: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001b0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001c0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001d0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001e0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
000001f0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000200: 0000 0000 0000 0000 61 .....a
alswnqodrl@alswnqodrl-900X3K:~/Homework/minjukim$
```

```
4 ? 00:00:00 /bin/sh -c /usr/lib/x86_64-linux
4 ? 00:00:00 /usr/bin/zeitgeist-daemon
4 ? 00:00:00 /usr/lib/x86_64-linux-gnu/zeitge
5 ? 00:00:00 update-notifier
6 ? 00:00:00 /usr/lib/x86_64-linux-gnu/deja-d
8 ? 00:00:00 /usr/sbin/cupsd -l
8 ? 00:00:00 /usr/sbin/cups-browsed
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
4 ? 00:06:38 /usr/lib/firefox/firefox
4 ? 00:06:13 /usr/lib/firefox/firefox -conten
4 ? 00:06:30 /usr/lib/firefox/firefox -conten
4 ? 00:00:39 /usr/lib/gnome-terminal/gnome-te
4 pts/2 00:00:00 bash
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-network --sp
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-smb-browse -
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-dnssd --spaw
3 ? 00:00:01 [kworker/u8:3]
0 ? 00:00:00 [kworker/u9:3]
8 ? 00:00:00 [scsi eh 4]
8 ? 00:00:00 [scsi tmf 4]
8 ? 00:00:00 [usb-storage]
2 ? 00:00:00 [kworker/1:1]
2 ? 00:00:00 [kworker/2:0]
3 ? 00:00:00 [kworker/u8:2]
8 ? 00:00:00 [kworker/2:1]
8 ? 00:00:00 [kworker/u9:0]
9 ? 00:00:00 [kworker/u8:0]
3 ? 00:00:00 [kworker/u9:1]
3 ? 00:00:00 [kworker/3:2]
5 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
5 ? 00:00:00 /usr/bin/unity-scope-loader appl
5 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
8 ? 00:00:00 [kworker/0:1]
0 ? 00:00:00 [kworker/1:0]
1 ? 00:00:00 [kworker/2:2]
3 ? 00:00:00 [kworker/3:1]
4 ? 00:00:00 [kworker/0:2]
4 ? 00:00:00 [kworker/u9:4]
9 ? 00:00:00 [kworker/3:0]
9 ? 00:00:00 [kworker/0:0]
9 ? 00:00:00 [kworker/u8:1]
9 ? 00:00:00 [kworker/2:3]
1 ? 00:00:00 [kworker/1:2]
1 pts/2 00:00:00 ps -ef
:~/Homework/minjukim$ ps -ef|grep bash
4 pts/2 00:00:00 bash
2 pts/2 00:00:00 grep --color=auto bash
:~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
4 pts/2 00:00:00 bash
:~/Homework/minjukim$ ps -ef|grep bash|grep -v grep|awk '{print $2}'
:~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
4 pts/2 00:00:00 bash
:~/Homework/minjukim$
```

## 19일차 내용 복습

```

alswnqodrl@alswnqodrl-900X3K: ~/Homework/minjukim
crw-rw---- 1 root dialout 4, 76 Mar 21 09:53 ttyS12
crw-rw---- 1 root dialout 4, 77 Mar 21 09:53 ttyS13
crw-rw---- 1 root dialout 4, 78 Mar 21 09:53 ttyS14
crw-rw---- 1 root dialout 4, 79 Mar 21 09:53 ttyS15
crw-rw---- 1 root dialout 4, 80 Mar 21 09:53 ttyS16
crw-rw---- 1 root dialout 4, 81 Mar 21 09:53 ttyS17
crw-rw---- 1 root dialout 4, 82 Mar 21 09:53 ttyS18
crw-rw---- 1 root dialout 4, 83 Mar 21 09:53 ttyS19
crw-rw---- 1 root dialout 4, 66 Mar 21 09:53 ttyS2
crw-rw---- 1 root dialout 4, 84 Mar 21 09:53 ttyS20
crw-rw---- 1 root dialout 4, 85 Mar 21 09:53 ttyS21
crw-rw---- 1 root dialout 4, 86 Mar 21 09:53 ttyS22
crw-rw---- 1 root dialout 4, 87 Mar 21 09:53 ttyS23
crw-rw---- 1 root dialout 4, 88 Mar 21 09:53 ttyS24
crw-rw---- 1 root dialout 4, 89 Mar 21 09:53 ttyS25
crw-rw---- 1 root dialout 4, 90 Mar 21 09:53 ttyS26
crw-rw---- 1 root dialout 4, 91 Mar 21 09:53 ttyS27
crw-rw---- 1 root dialout 4, 92 Mar 21 09:53 ttyS28
crw-rw---- 1 root dialout 4, 93 Mar 21 09:53 ttyS29
crw-rw---- 1 root dialout 4, 67 Mar 21 09:53 ttyS3
crw-rw---- 1 root dialout 4, 94 Mar 21 09:53 ttyS30
crw-rw---- 1 root dialout 4, 95 Mar 21 09:53 ttyS31
crw-rw---- 1 root dialout 4, 68 Mar 21 09:53 ttyS4
crw-rw---- 1 root dialout 4, 69 Mar 21 09:53 ttyS5
crw-rw---- 1 root dialout 4, 70 Mar 21 09:53 ttyS6
crw-rw---- 1 root dialout 4, 71 Mar 21 09:53 ttyS7
crw-rw---- 1 root dialout 4, 72 Mar 21 09:53 ttyS8
crw-rw---- 1 root dialout 4, 73 Mar 21 09:53 ttyS9
drwxr-xr-x 2 root root 80 Mar 21 09:53 ubuntu-vg
crw----- 1 root root 10, 239 Mar 21 09:53 uhid
crw----- 1 root root 10, 223 Mar 21 09:53 uinput
crw-rw-rw- 1 root root 1, 9 Mar 21 09:53 urandom
crw----- 1 root root 10, 240 Mar 21 09:53 userio
drwxr-xr-x 4 root root 80 Mar 21 09:53 v4l
crw-rw---- 1 root tty 7, 0 Mar 21 09:53 vcs
crw-rw---- 1 root tty 7, 1 Mar 21 09:53 vcs1
crw-rw---- 1 root tty 7, 2 Mar 21 09:53 vcs2
crw-rw---- 1 root tty 7, 3 Mar 21 09:53 vcs3
crw-rw---- 1 root tty 7, 4 Mar 21 09:53 vcs4
crw-rw---- 1 root tty 7, 5 Mar 21 09:53 vcs5
crw-rw---- 1 root tty 7, 6 Mar 21 09:53 vcs6
crw-rw---- 1 root tty 7, 128 Mar 21 09:53 vcsa
crw-rw---- 1 root tty 7, 129 Mar 21 09:53 vcsa1
crw-rw---- 1 root tty 7, 130 Mar 21 09:53 vcsa2
crw-rw---- 1 root tty 7, 131 Mar 21 09:53 vcsa3
crw-rw---- 1 root tty 7, 132 Mar 21 09:53 vcsa4
crw-rw---- 1 root tty 7, 133 Mar 21 09:53 vcsa5
crw-rw---- 1 root tty 7, 134 Mar 21 09:53 vcsa6
drwxr-xr-x 2 root root 60 Mar 21 09:53 vfiio
crw-rw---- 1 root root 10, 63 Mar 21 09:53 vga_arbiter
crw----- 1 root root 10, 137 Mar 21 09:53 vhci
crw-rw---- 1 root root 10, 238 Mar 21 09:53 vhost-net
crw-rw---- 1 root root 10, 241 Mar 21 09:53 vhost-vsock
crw-rw-rw-+ 1 root video 81, 0 Mar 21 09:53 video0
crw-rw-rw- 1 root root 1, 5 Mar 21 09:53 zero
alswnqodrl@alswnqodrl-900X3K: ~/Homework/minjukim$

4 ? 00:00:00 /bin/sh -c /usr/lib/x86_64-linux
4 ? 00:00:00 /usr/bin/zeitgeist-daemon
4 ? 00:00:00 /usr/lib/x86_64-linux-gnu/zeitge
5 ? 00:00:00 update-notifier
6 ? 00:00:00 /usr/lib/x86_64-linux-gnu/deja-d
8 ? 00:00:00 /usr/sbin/cupsd -l
8 ? 00:00:00 /usr/sbin/cups-browsed
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
8 ? 00:00:00 /usr/lib/cups/notifier/dbus dbus
4 ? 00:06:38 /usr/lib/firefox/firefox
4 ? 00:00:13 /usr/lib/firefox/firefox -conten
4 ? 00:06:30 /usr/lib/firefox/firefox -conten
4 ? 00:00:39 /usr/lib/gnome-terminal/gnome-te
4 pts/2 00:00:00 bash
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-network --sp
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-smb-browse -
3 ? 00:00:00 /usr/lib/gvfs/gvfsd-dnssd --spaw
3 ? 00:00:01 [kworker/u8:3]
0 ? 00:00:00 [kworker/u9:3]
8 ? 00:00:00 [scsi_eh_4]
8 ? 00:00:00 [scsi_tmf_4]
8 ? 00:00:00 [usb-storage]
2 ? 00:00:00 [kworker/1:1]
2 ? 00:00:00 [kworker/2:0]
3 ? 00:00:00 [kworker/u8:2]
8 ? 00:00:00 [kworker/2:1]
8 ? 00:00:00 [kworker/u9:0]
9 ? 00:00:00 [kworker/u8:0]
3 ? 00:00:00 [kworker/u9:1]
3 ? 00:00:00 [kworker/3:2]
5 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
5 ? 00:00:00 /usr/bin/unity-scope-loader appl
5 ? 00:00:00 /usr/lib/x86_64-linux-gnu/unity-
8 ? 00:00:00 [kworker/0:1]
0 ? 00:00:00 [kworker/1:0]
1 ? 00:00:00 [kworker/2:2]
3 ? 00:00:00 [kworker/3:1]
4 ? 00:00:00 [kworker/0:2]
4 ? 00:00:00 [kworker/u9:4]
9 ? 00:00:00 [kworker/3:0]
9 ? 00:00:00 [kworker/0:0]
9 ? 00:00:00 [kworker/u8:1]
1 ? 00:00:00 [kworker/2:3]
1 ? 00:00:00 [kworker/1:2]
1 pts/2 00:00:00 ps -ef
~/Homework/minjukim$ ps -ef|grep bash
4 pts/2 00:00:00 bash
2 pts/2 00:00:00 grep --color=auto bash
~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
4 pts/2 00:00:00 bash
~/Homework/minjukim$ ps -ef|grep bash|grep -v grep|awk '{print $2}'
~/Homework/minjukim$ ps -ef|grep bash|grep -v grep
4 pts/2 00:00:00 bash
~/Homework/minjukim$

```





