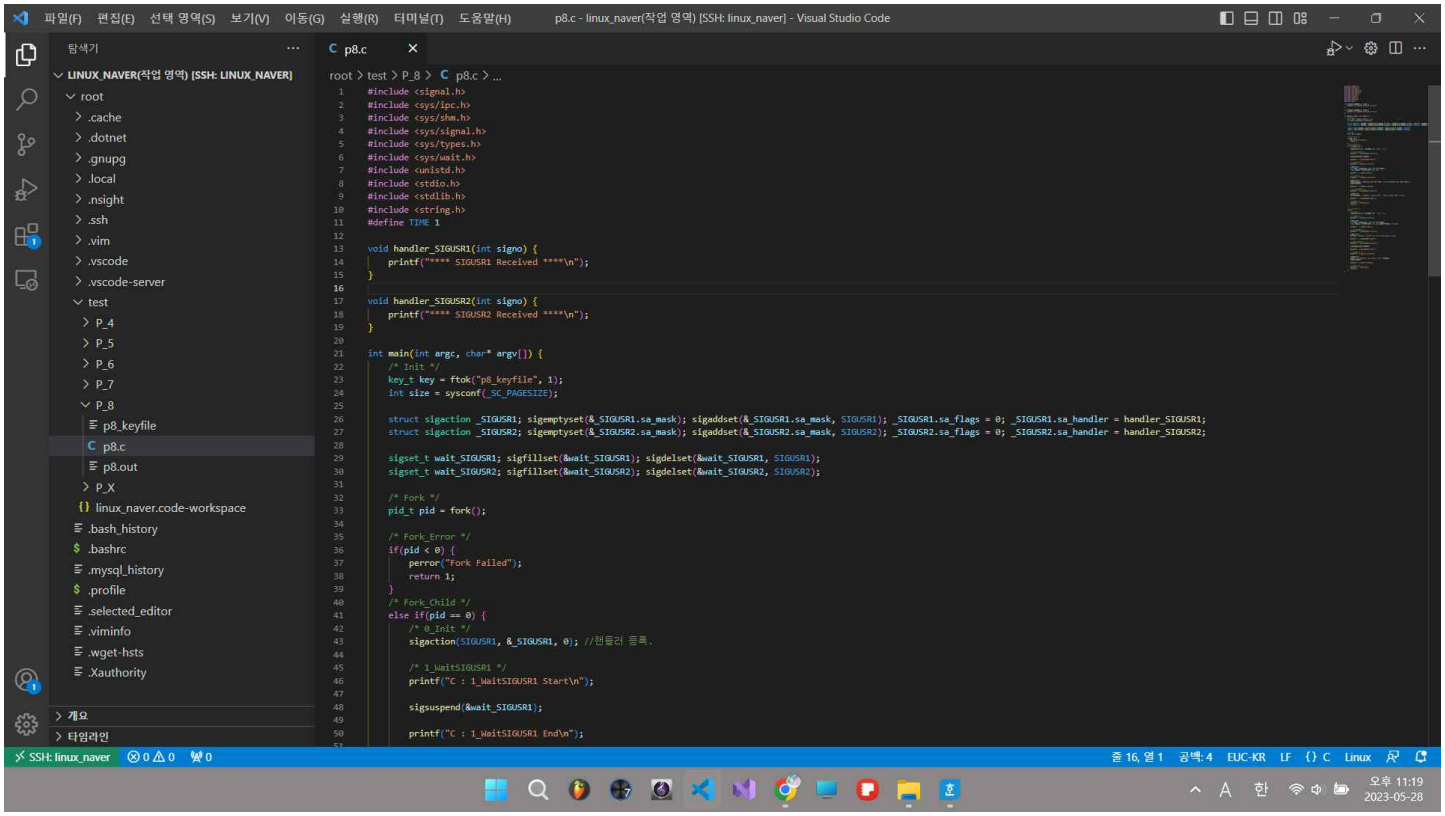
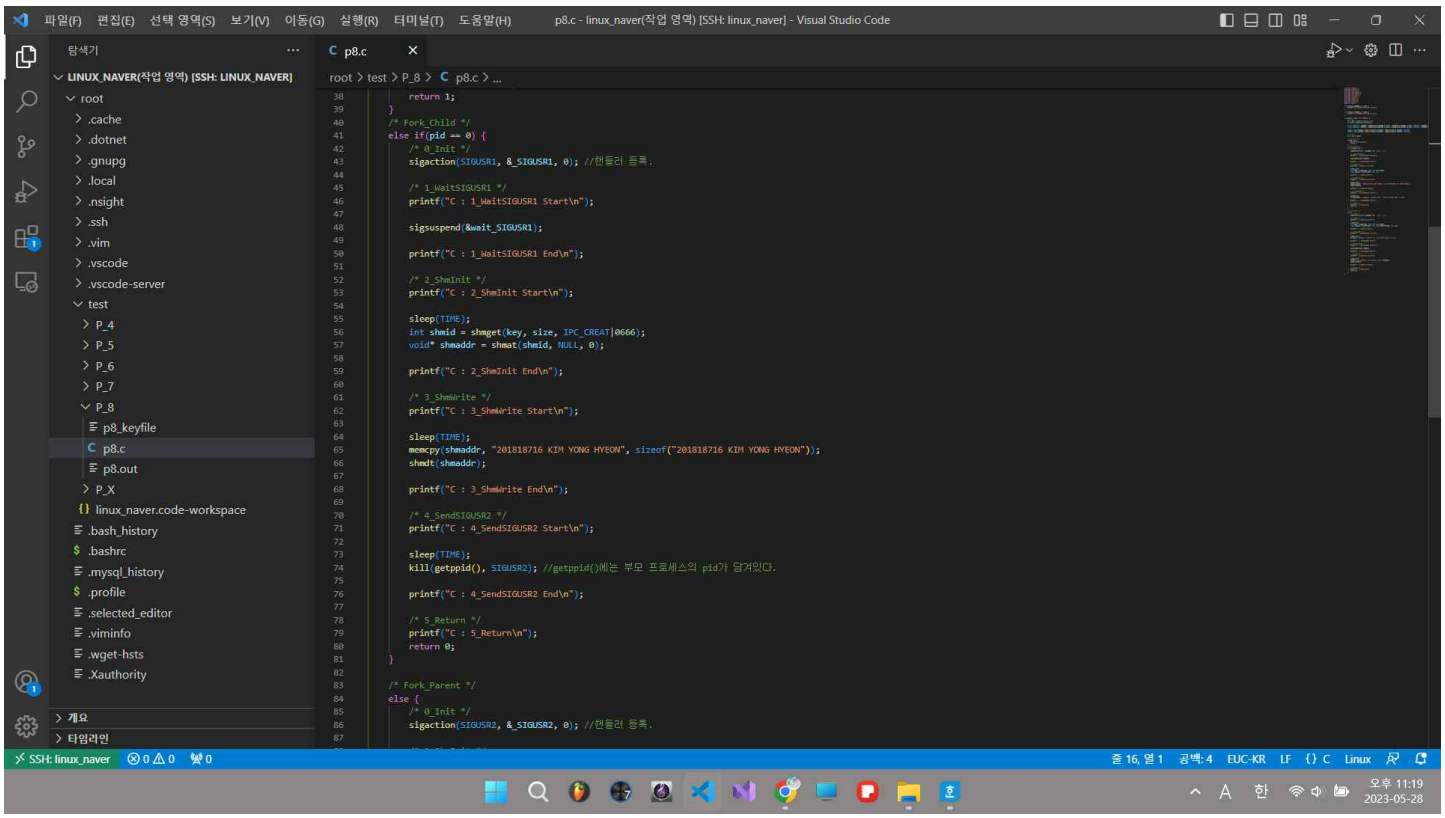
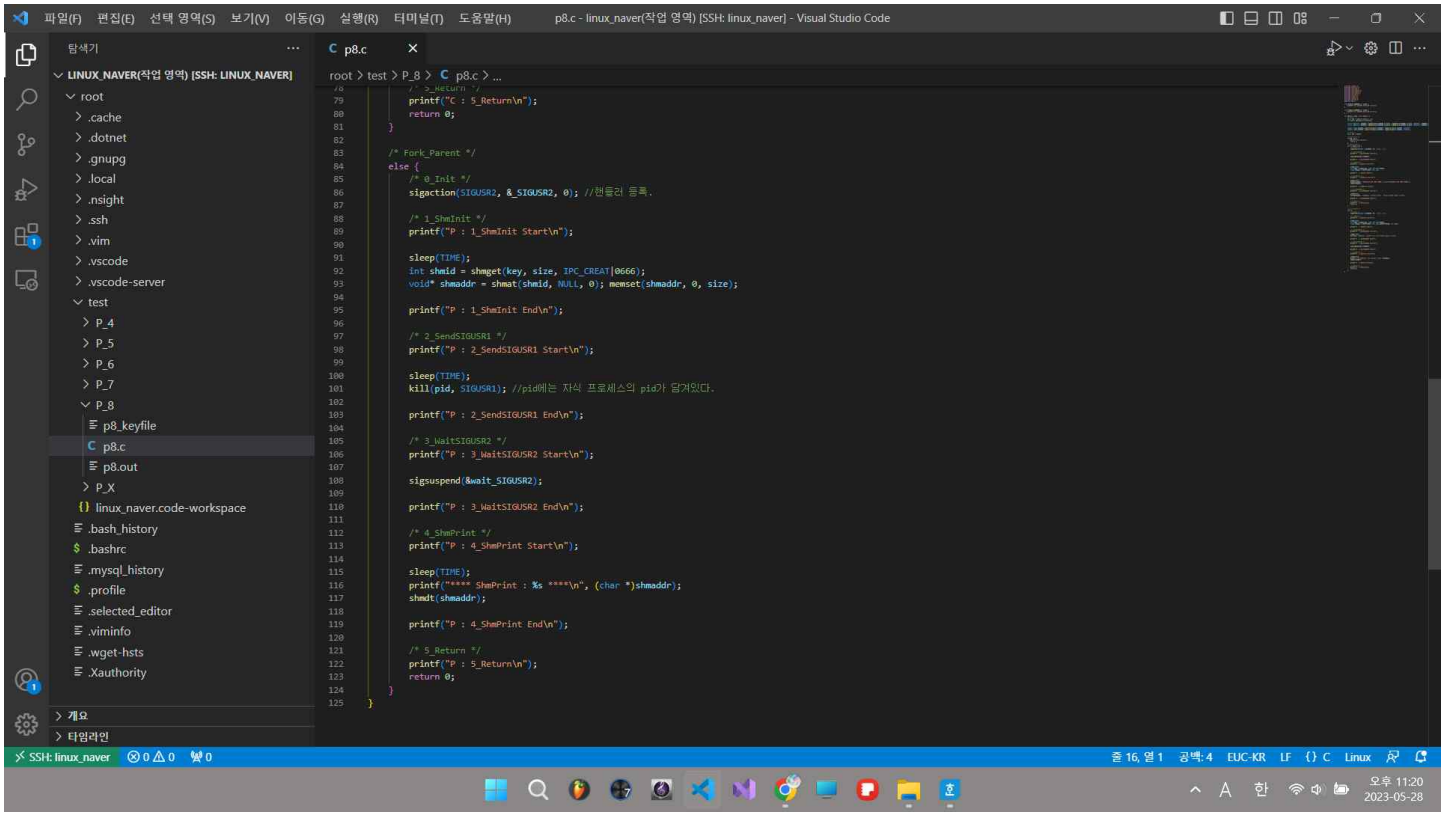
201818716
컴퓨터공학부
김용현

※ 실습 간 Putty · Xshell 대신, VScode상의 SSH 확장프로그램을 이용하여 실습 서버에 접근하였습니다.

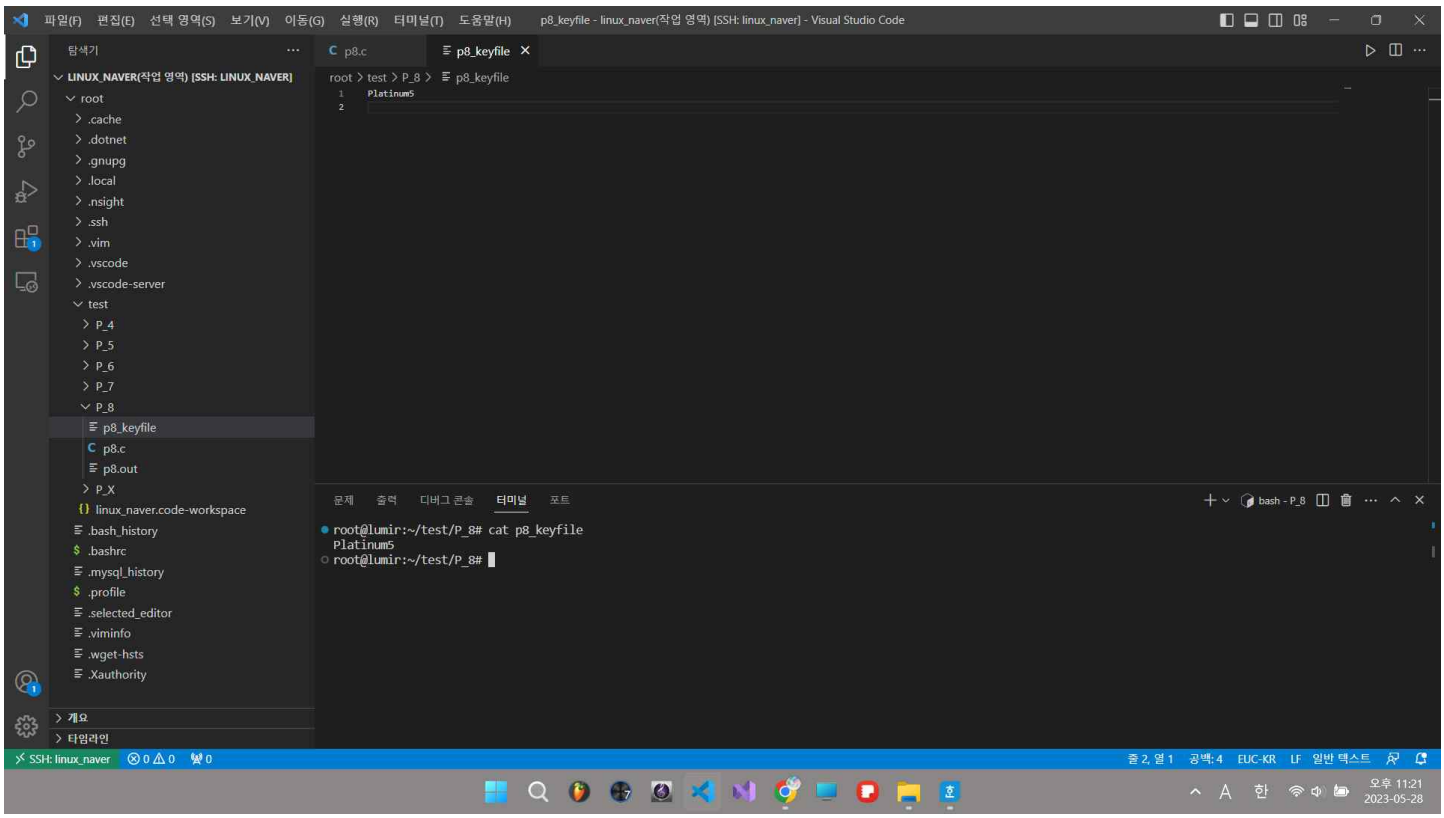
[코드파일 스크린샷]






파일(F) 편집(E) 선택 영역(S) 보기(V) 이동(G) 실행(R) 터미널(T) 도움말(H) p8.c - linux_naver(작업 영역) [SSH: linux_naver] - Visual Studio Code
탐색기
LINUX_NAVER(작업 영역) [SSH: LINUX_NAVER]
root
.cache
.dotnet
.gnupg
.local
.nsight
.ssh
.vim
.vscode
.vscode-server
test
P_4
P_5
P_6
P_7
P_8
p8_keyfile
p8.c
p8.out
P_X
linux_naver.code-workspace
.bash_history
.bashrc
.mysql_history
.profile
.selected_editor
.viminfo
.wget-hsts
.Xauthority
개요
타임라인
p8.c
root > test > P_8 > p8.c > ...
printf("C : 5_Return\n");
return 0;
/* Fork_Parent */
else {
/* 0_Init */
sigaction(SIGUSR2, &_SIGUSR2, 0); //핸들러 등록.
/* 1_ShmInit */
printf("P : 1_ShmInit Start\n");
sleep(TIME);
int shmid = shmget(key, size, IPC_CREAT|0666);
void* shmaddr = shmat(shmid, NULL, 0); memset(shmaddr, 0, size);
printf("P : 1_ShmInit End\n");
/* 2_SendSIGUSR1 */
printf("P : 2_SendSIGUSR1 Start\n");
sleep(TIME);
kill(pid, SIGUSR1); //pid에는 자식 프로세스의 pid가 담겨있다.
printf("P : 2_SendSIGUSR1 End\n");
/* 3_WaitSIGUSR2 */
printf("P : 3_WaitSIGUSR2 Start\n");
sigsuspend(&wait_SIGUSR2);
printf("P : 3_WaitSIGUSR2 End\n");
/* 4_ShmPrint */
printf("P : 4_ShmPrint Start\n");
sleep(TIME);
printf("**** ShmPrint : %s ****\n", (char *)shmaddr);
shmdt(shmaddr);
printf("P : 4_ShmPrint End\n");
/* 5_Return */
printf("P : 5_Return\n");
return 0;
}
}
SSH: linux_naver
줄 16, 열 1 공백: 4 EUC-KR LF {} C Linux
오후 11:20
2023-05-28

[keyfile]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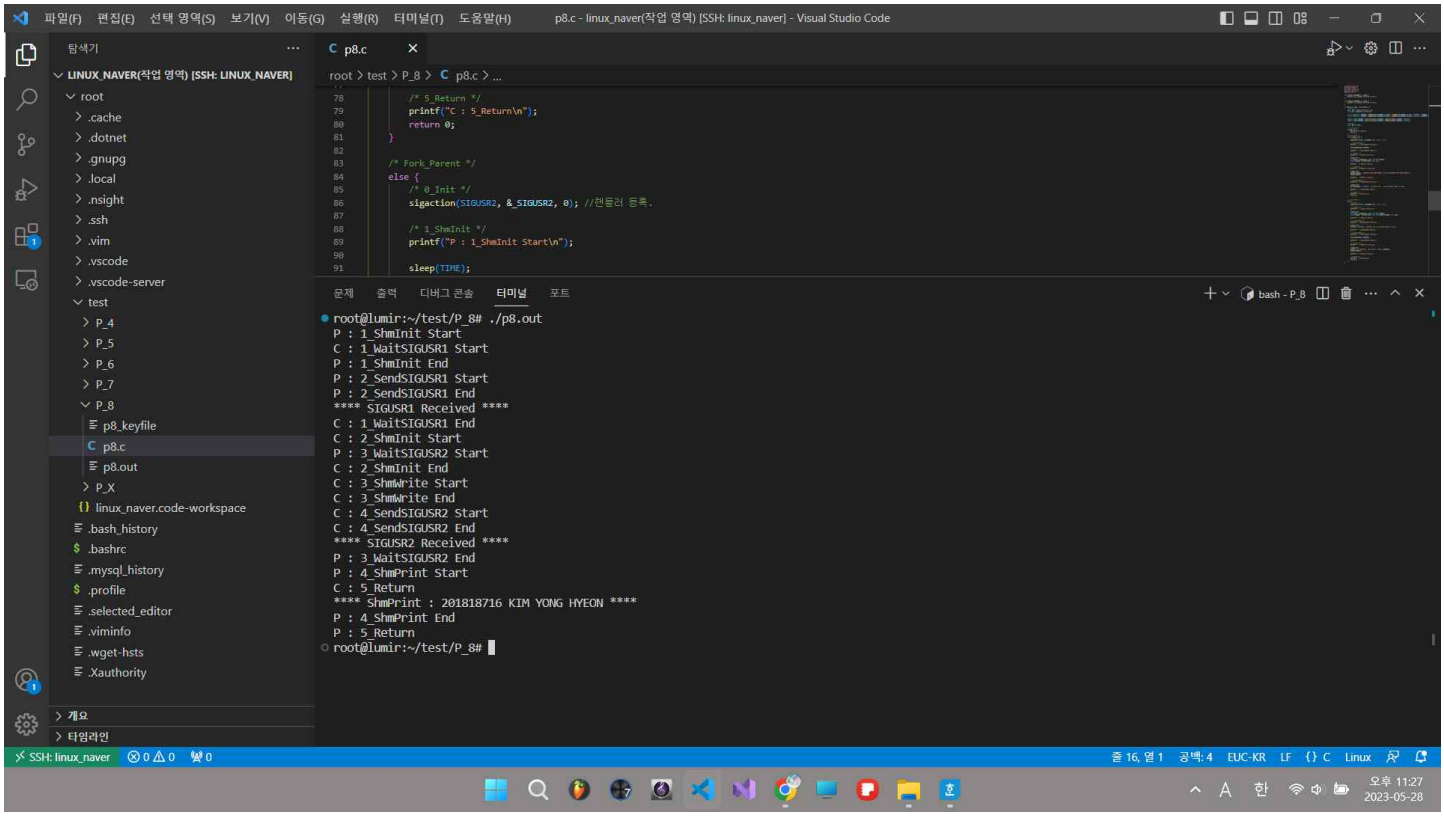
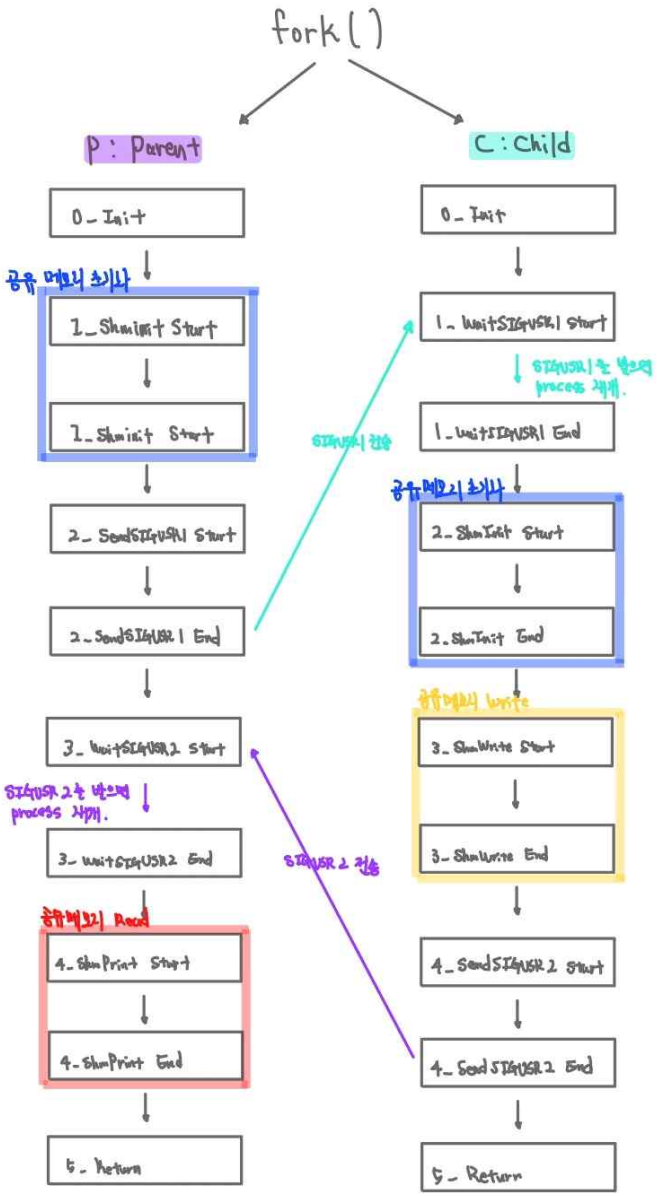
개요
타임라인
p8.c
p8_keyfile
root > test > P_8 > p8_keyfile
Platinum5
문제 출력 디버그 콘솔 터미널 포트
bash - P_8
root@lumir:~/test/P_8# cat p8_keyfile
Platinum5
root@lumir:~/test/P_8#
SSH: linux_naver
줄 2, 열 1 공백: 4 EUC-KR LF 일반 텍스트
오후 11:21
2023-05-28

[실행 스크린샷] : 실행과정 중 P는 Parent, C는 Child를 의미함.



[간략한 설명]


fork()
P : Parent
C : Child
0_Init
0_Init
공유 메모리 초기화
1_ShmInit Start
1_ShmInit Start
1_WaitSIGUSR1 Start
SIGUSR1을 받으면 process 재개.
1_WaitSIGUSR1 End
SIGUSR1 전송
공유메모리 초기화
2_SendSIGUSR1 Start
2_ShmInit Start
2_SendSIGUSR1 End
2_ShmInit End
공유메모리 write
3_WaitSIGUSR2 Start
3_ShmWrite Start
SIGUSR2을 받으면 process 재개.
3_WaitSIGUSR2 End
3_ShmWrite End
SIGUSR2 전송
공유메모리 Read
4_SendSIGUSR2 Start
4_ShmPrint Start
4_SendSIGUSR2 End
4_ShmPrint End
5_Return
5_Return