

1. Server에서 Client에게 stop fifo 전달

```
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ nano fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): asd
Client exiting...leechihee@leechihee-VirtualBox: ~/문서/250604$ nano fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ nano fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o s.out fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$
```

```
leechihee@leechihee-VirtualBox: ~/문서/250604$
Client =====
Server: asd

(Client): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./c.out
Client =====
Server: hi

(Client): hi
Server: stop fifo

Server Exiting...leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo
nano fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./c.out
Client =====
Server: hi

(Client): hi
Server: stop fifo

Server Exiting...
leechihee@leechihee-VirtualBox: ~/문서/250604$
```

2. Client에서 Server로 stop fifo 전달

```
leechihee@leechihee-VirtualBox: ~/문서/250604$
Client exiting...leechihee@leechihee-VirtualBox: ~/문서/250604$ nano fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ nano fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o s.out fifo_server.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./s.out
server =====
(Server): hi
Client: hi

(Server): bye
Client exiting...
leechihee@leechihee-VirtualBox: ~/문서/250604$
```

```
leechihee@leechihee-VirtualBox: ~/문서/250604$
(Client): hi
Server: stop fifo

Server Exiting...leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo
nano fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ gcc -o c.out fifo_clinet.c
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./c.out
Client =====
Server: hi

(Client): hi
Server: stop fifo

Server Exiting...
leechihee@leechihee-VirtualBox: ~/문서/250604$ ./c.out
Client =====
Server: hi

(Client): hi
Server: bye

(Client): stop fifo
leechihee@leechihee-VirtualBox: ~/문서/250604$
```

```

#include <sys/stat.h>
#include <fcntl.h>
#include <unistd.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>

int main() {
    int to_client_fd, to_server_fd;
    char send_buf[100], recv_buf[100];
    const char stop[100] = "stop fifo\n";
    int n;

    printf("Server =====\n");
    // FIFO 파일 생성
    mkfifo("to_client_fifo", 0666);
    mkfifo("to_server_fifo", 0666);

    // FIFO 열기
    to_client_fd = open("to_client_fifo", O_WRONLY);
    to_server_fd = open("to_server_fifo", O_RDONLY);

    if (to_client_fd == -1 || to_server_fd == -1) {
        perror("open");
        exit(1);
    }

    while (1) {
        // 메시지 보내기
        printf(" (Server): ");
        fflush(stdout); //표준 출력 버퍼를 비움

```

```
fgets(send_buf, sizeof(send_buf), stdin);
write(to_client_fd, send_buf, strlen(send_buf));
// 메시지 받기
n = read(to_server_fd, recv_buf, sizeof(recv_buf));
if(strcmp(recv_buf, "stop fifo\n")==0)
{
    printf("Client exiting...\n");
    break;
}

if(strcmp(send_buf, "stop fifo\n") == 0)
    break;

if (n > 0) {
    recv_buf[n] = '\0';
    printf("Client: %s\n", recv_buf);
}

}

close(to_client_fd);
close(to_server_fd);
return 0;
}
```

```

#include <fcntl.h>
#include <unistd.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>

int main() {
    int to_client_fd, to_server_fd;
    char send_buf[100], recv_buf[100];
    int n, flag = 0;

    printf("Client =====\n");

    // FIFO 열기
    to_client_fd = open("to_client_fifo", O_RDONLY);
    to_server_fd = open("to_server_fifo", O_WRONLY);

    if (to_client_fd == -1 || to_server_fd == -1) {
        perror("open");
        exit(1);
    }

    while (1) {
        // 메시지 받기
        n = read(to_client_fd, recv_buf, sizeof(recv_buf));

        if (n > 0) {
            recv_buf[n] = '\0';
            printf("Server: %s\n", recv_buf);
        }

        // 메시지 보내기
        if(strcmp(recv_buf,"stop fifo\n")==0)

```

```
    {
        printf("Server Exiting...\n");
        break;
    }
    printf(" (Client): ");
    fflush(stdout);
    fgets(send_buf, sizeof(send_buf), stdin);
    write(to_server_fd, send_buf, strlen(send_buf));

    if(strcmp(send_buf, "stop fifo\n")==0)
    {
        break;
    }

}

close(to_client_fd);
close(to_server_fd);
return 0;
}
```