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FIFOs

SERVER SIDE

```c
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <unistd.h>

int main()
{
    int fd;
    char * myfifo = "/tmp/myfifo";
    mkfifo(myfifo, 0666);
    char arr1[80], arr2[80];
    while (1)
    {
        fd = open(myfifo, O_WRONLY);
        fgets(arr2, 80, stdin);
        write(fd, arr2, strlen(arr2)+1);
        close(fd);
        fd = open(myfifo, O_RDONLY);
        read(fd, arr1, sizeof(arr1));
        printf("User2: %s\n", arr1);
        close(fd);
}
}
```

CLIENT SIDE

```c
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <unistd.h>

int main()
{
    int fd1;
    char * myfifo = "/tmp/myfifo";
    mkfifo(myfifo, 0666);
    char str1[80], str2[80];
    while (1)
    {
        fd1 = open(myfifo,O_RDONLY);
```

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```
    read(fd1, str1, 80);
    printf("User1: %s\n", str1);
    close(fd1);
    fd1 = open(myfifo,O_WRONLY);
    fgets(str2, 80, stdin);
    write(fd1, str2, strlen(str2)+1);
close(fd1);
    }
    return 0;
}
```

OUTPUT:

```
it@it-Latitude-3410:~/20wh1a12b3$ gedit fifo1.c
it@it-Latitude-3410:~/20wh1a12b3$ gcc fifo1.c
it@it-Latitude-3410:~/20wh1a12b3$ ./a.out
hella
User2: hi
```

```
it@it-Latitude-3410:~/20wh1a12b3$ gcc fifo2.c
it@it-Latitude-3410:~/20wh1a12b3$ ./a.out
User1: hella

hi
```