

IPC SHARED MEMORY:

SENDER:

```
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <string.h>
```

```
#define SHM_SIZE 1024 // Size of shared memory
```

```
int main() {
    key_t key = ftok("shmfile", 65); // Generate a unique key
    int shmid = shmget(key, SHM_SIZE, 0666|IPC_CREAT); // Create shared memory
    char *str = (char*) shmat(shmid, (void*)0, 0); // Attach to shared memory

    printf("Write Data: ");
    fgets(str, SHM_SIZE, stdin); // Write data to shared memory

    printf("Data written in shared memory: %s", str);

    shmdt(str); // Detach from shared memory
    return 0;
}
```

RECEIVER:

```
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/shm.h>
```

```
#define SHM_SIZE 1024 // Size of shared memory
```

```
int main() {
    key_t key = ftok("shmfile", 65); // Generate the same unique key
    int shmid = shmget(key, SHM_SIZE, 0666); // Access shared memory
    char *str = (char*) shmat(shmid, (void*)0, 0); // Attach to shared memory

    printf("Data from shared memory: %s", str); // Read data from shared memory

    shmdt(str); // Detach from shared memory
    return 0;
}
```