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## **PROGRAM**

```
// sender.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <unistd.h>
#define SHM_SIZE 1024
#define SHM_KEY 1234
int main() {
    int shmid;
      char *shm_ptr;
      shmid = shmget(SHM_KEY, SHM_SIZE, IPC_CREAT | 0666);
if (shmid == -1) {
    perror("shmget");
    return 1;
      shm_ptr = shmat(shmid, NULL, 0);
if (shm_ptr == (char *) -1) {
    perror("shmat");
    return 1;
      }
sprintf(shm_ptr, "Welcome to Shared Memory");
      spinct(shim_ptr, welcome to
sleep(2);
if (shmdt(shm_ptr) == -1) {
    perror("shmdt");
    return 1;
      return 0;
```

```
// receiver.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#define SHM_SIZE 1024
#define SHM_KEY 1234
int main() {
    int shmid;
    char *shm_ptr;
    shmid = shmget(SHM_KEY, SHM_SIZE, 0666); // No IPC_CREAT here
    if (shmid == -1) {
        perror("shmget");
        return 1;
    shm_ptr = shmat(shmid, NULL, 0);
if (shm_ptr == (char *) -1) {
    perror("shmat");
        return 1;
    printf("Message Received: %s\n", shm_ptr);
        if (shmdt(shm_ptr) == -1) {
        perror("shmdt");
         return 1;
    return 0;
```

## **OUTPUT**

```
[cse66@localhost ~]$ vi ipc.c

[cse66@localhost ~]$ vi sender.c

[cse66@localhost ~]$ gcc sender.c -o sender

[cse66@localhost ~]$ gcc receiver.c -o receiver

[cse66@localhost ~]$ gcc receiver.c -o receiver

[cse66@localhost ~]$ ./sender

[cse66@localhost ~]$ ./receiver

Message Received: Welcome to Shared Memory
```