

Title:

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## SHARED MEMORY

### SHARED MEMORY (WRITE)

```
#include <iostream>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
using namespace std;
int main() {
    key_t my_key = ftok("shmfile",65);
    int shmid = shmget(my_key,1024,0666|IPC_CREAT);
    char *str = (char*) shmat(shmid,(void*)0,0);
    cout<<"Write Data : ";
    fgets(str, 50, stdin);
    printf("Data written in memory: %s\n",str);
    shmdt(str);
}
```

### SHARED MEMORY (READ)

```
#include <iostream>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
using namespace std;

int main()
{
    key_t key = ftok("shmfile",65);
    int shmid = shmget(key,1024,0666|IPC_CREAT);
    char *str = (char*) shmat(shmid,(void*)0,0);
    printf("Data read from memory: %s\n",str);
    shmdt(str);
    shmctl(shmid,IPC_RMID,NULL);

    return 0;
}
```

### OUTPUT:

```
it@it-Latitude-3410:~/20wh1a12b3$ g++ sw.cpp
it@it-Latitude-3410:~/20wh1a12b3$ ./a.out
Write Data : hello
Data written in memory: hello
```

```
it@it-Latitude-3410:~/20wh1a12b3$ g++ sr.cpp
it@it-Latitude-3410:~/20wh1a12b3$ ./a.out
Data read from memory: hello
```