#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <sys/ipc.h>

#include <sys/shm.h>

#define SHM\_SIZE 1024

int main() {

int shmid;

key\_t key = 1234;

if ((shmid = shmget(key, SHM\_SIZE, IPC\_CREAT | 0666)) < 0) {

perror("shmget");

exit(1);

}

char \*shm\_ptr = shmat(shmid, NULL, 0);

if (shm\_ptr == (char \*)-1) {

perror("shmat");

exit(1);

}

printf("Enter data to write to shared memory: ");

fgets(shm\_ptr, SHM\_SIZE, stdin);

shmdt(shm\_ptr);

pid\_t pid = fork();

if (pid < 0) {

perror("fork");

exit(1);

} else if (pid == 0) {

shm\_ptr = shmat(shmid, NULL, 0);

if (shm\_ptr == (char \*)-1) {

perror("shmat");

exit(1);

}

printf("Child process read from shared memory: %s\n", shm\_ptr);

shmdt(shm\_ptr);

} else {

wait(NULL);

shmctl(shmid, IPC\_RMID, NULL);

}

return 0;

}