steve@comp322:~$ cat sema.c

#include <fcntl.h> /\* For O\_\* constants \*/

#include <sys/stat.h> /\* For mode constants \*/

#include <semaphore.h>

#include <unistd.h>

#include <stdio.h>

#include <errno.h>

#define SEM\_FILE1 "/steve\_chopstick\_1A"

#define SEM\_FILE2 "/steve\_chopstick\_2"

sem\_t \* returnVal;

sem\_t \* chopstick[3];

main () {

returnVal = sem\_open(SEM\_FILE1, O\_CREAT|O\_EXCL, 0666, 1);

if (returnVal == SEM\_FAILED ) {

perror(NULL);

returnVal = sem\_open(SEM\_FILE1, 0);

}

chopstick[1] = returnVal;

sleep(1);

sem\_close(chopstick[1]);

sem\_unlink(SEM\_FILE1);

}

steve@comp322:~$ cc -g -lpthread sema.c

steve@comp322:~$ ./a.out