```
void *func(void *arg);
sem_t sem;
#define BUFSIZE 1024
char buf[BUFSIZE]:
int main() {
 pthread_t t;
  if( sem_init(&sem, 0, 0) != 0 ) {}
  if( pthread_create(&t, NULL, func, NULL) != 0 ) {}
  puts("Please input some text. Ctrl-d to quit.");
  while( fgets(buf, BUFSIZE, stdin) )
    sem post (&sem);
                                 /* in case of Ctrl-d */
  sem post (&sem);
  if( pthread join(t, NULL) != 0) {}
  sem destroy (&sem);
 exit (EXIT SUCCESS);
void *func(void *arg) {
  sem wait (&sem):
 while ( buf[0] != '\0' ) {
   printf("You input %ld characters\n", strlen(buf)-1);
   buf[0] = ' \setminus 0';
                               /* in case of Ctrl-d */
   sem wait (&sem);
 pthread exit (NULL);
```