## Example: Signaling With Semaphore

```
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);
  sem_post(&sem); /* in case of Ctrl-d */
  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] = '\0': /* in case of Ctrl-d */
    sem wait (&sem);
 pthread_exit(NULL);
```