

```
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);
}
```