```
#define CHAIRS 5
                                void customer(void)
semaphore customers = 0;
semaphore bber = ?;
                                   if (waiting == CHAIRS)
semaphore mutex = 1;
                                     goHome();
int waiting = 0;
                                   else {
                                     wait(&mutex);
void barber(void)
                                     waiting++;
                                     signal(&mutex);
  while (TRUE) {
                                     signal(&customers);
    wait(&customers);
                                     wait(&bber);
    cutHair();
                                     getHairCut();
                                     signal(&bber);
                                     wait(&mutex);
                                       waiting--;
                                     signal(&mutex);
```