Solution2

```
1  #define CHAIRS 5
2  semaphore customers = 0;
3  semaphore bber = ?;
4  semaphore mutex = 1;
5  int waiting = 0;
6
7  void barber(void)
8  {
9    while (TRUE) {
10     wait(&customers);
11     cutHair();
12   }
13 }
```

```
1  void customer(void)
2  {
3    if (waiting == CHAIRS)
4      goHome();
5    else {
6      wait(&mutex);
7      waiting++;
8      signal(&mutex);
9      signal(&customers);
10     wait(&bber);
11     getHairCut();
12     signal(&bber);
13     wait(&mutex);
14       waiting--;
15     signal(&mutex);
16   }
17 }
```