Pseudocódigo practica 2

Ejercicio A

```
public class SushiMonitor_01 {
       int emptySeats = 5
       boolean groupEating = false
       Condition canEnter
       public void enter(int i) {
               while(emptySeats <= 0 || groupEating) {
                      if (emptySeats <= 0 && !groupEating)</pre>
                              groupEating = true
                      waitC(canEnter)
               }
               decrease emptySeats
       }
       public void exit(int i) {
               increase emptySeats
               if (emptySeats >= 5)
                      groupEating = false
               signalC(canEnter)
       }
}
```

Ejercicio B

```
public class SushiMonitor_02 {
       int emptySeats = 5
       boolean groupEating = false
       LinkedHashSet waitingQueue; // ordered and unique elements
       Condition canEnter
       public void enter(int i) {
              waitingQueue.enqueue(i)
              while(emptySeats <= 0 || groupEating || waitingQueue.first != i) {
                      if (emptySeats <= 0 && !groupEating)</pre>
                             groupEating = true
                      signalC(canEnter)
                      waitC(canEnter)
              }
              waitingQueue.pop()
              decrease emptySeats
       }
       public void exit(int i) {
              increase emptySeats
              if (emptySeats >= 5)
                     groupEating = false
              signalC(canEnter)
       }
}
```

Ejercicio C

```
public class SushiMonitor_03 {
       int emptySeats = 5
       boolean groupEating = false
       LinkedHashSet waitingQueue; // ordered and unique elements
       Int waitingVips = 0
       Condition canEnter
       // Mismo codigo que en el apartado A pero con cambios marcados en verde
       public void enterVIP (int i) {
               waitingVips ++;
               while(emptySeats <= 0) {
                      waitC(canEnter)
               decrease emptySeats
               groupEating = false
               waitingVips --;
       }
       // Mismo codigo que en el apartado A
       public void exitVIP (int i) {
               increase emptySeats
               if (emptySeats >= 5)
                      groupEating = false
               signalC(canEnter)
       }
       public void enter(int i) {
               waitingQueue.enqueue(i)
               while(waitingVips > 0 || emptySeats <= 0 || groupEating ||
waitingQueue.first != i) {
                      if (emptySeats <= 0 && !groupEating)
                             groupEating = true
                      signalC(canEnter)
                      waitC(canEnter)
              }
               waitingQueue.pop()
               decrease emptySeats
       }
       public void exit(int i) {
               increase emptySeats
```