

skilaverkefni 15

```
// init:
Semaphore on_table = new Semaphore(0);
Semaphore offer_plain = new Semaphore(0);
Semaphore offer_cream = new Semaphore(0);
Semaphore offer_choco = new Semaphore(0);

// master:
while(true) {
    int choice = random(1,3)
    switch(choice) {
        case 1:
            offer(cream, choco);
            offer_plain.signal();
            break;

        case 2:
            offer(choco, plain);
            offer_cream.signal();
            break;

        case 3:
            offer(plain, cream);
            offer_choco.signal();
            break;
    }

    on_table.wait();
}

// ass-cream:
while(true) {
    offer_cream.wait();
    ingredients = fetch();
    on_table.signal();

    assemble(ingredients, cream)
}

// ass-choco:
while(true) {
    offer_choco.wait();
    ingredients = fetch();
    on_table.signal();

    assemble(ingredients, choco)
}

// ass-plain:
```

```
while(true) {  
  offer_plain.wait();  
  ingredients = fetch();  
  on_table.signal();  
  
  assemble(ingredients, plain)  
}
```