## The Dining Philosophers Problem

```
/* number of philosophers */
   #define N 5
2
   void philosopher(int i) /* i: philosopher number, from 0 to 4 */
4
     while (TRUE) {
                           /* philosopher is thinking */
       think();
       take_fork(i); /* take left fork */
       take_fork((i+1) % N); /* take right fork; % is modulo operator */
                              /* yum-yum, spaghetti
       eat();
       put fork(i);
                              /* put left fork back on the table */
10
       put fork((i+1) % N); /* put right fork back on the table */
11
12
13
```

? Put down the left fork and wait for a while if the right one is not available? Similar to CSMA/CD — Starvation