## 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) {
      think();
               /* philosopher is thinking */
    take_fork(i);  /* take left fork */
s take fork((i+1) % N); /* take right fork; % is modulo operator */
                        /* yum-yum, spaghetti */
9 eat();
put_fork(i); /* put left fork back on the table */
      put fork((i+1) % N); /* put right fork back on the table */
11
12
   }
13
```