

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