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