

```
#define N 5
```

```
void philosopher(int i)
```

```
{
```

```
    while (TRUE) {
```

```
        think();
```

```
        take_fork(i);
```

```
        take_fork((i+1) % N);
```

```
        eat();
```

```
        put_fork(i);
```

```
        put_fork((i+1) % N);
```

```
    }
```

```
}
```

```
/* number of philosophers */
```

```
/* i: philosopher number, from 0 to 4 */
```

```
/* philosopher is thinking */
```

```
/* take left fork */
```

```
/* take right fork; % is modulo operator */
```

```
/* yum-yum, spaghetti */
```

```
/* put left fork back on the table */
```

```
/* put right fork back on the table */
```