```
sem fork[5] = {1, 1, 1, 1, 1};
process Philosopher[i = 0 to 3] {
  while (true) {
    P(fork[i]); P(fork[i+1]); # get left fork then right
    eat;
    V(fork[i]); V(fork[i+1]);
    think;
  }
}
process Philosopher[4] {
  while (true) {
    P(fork[0]); P(fork[4]);   # get right fork then left
    eat;
    V(fork[0]); V(fork[4]);
    think;
  }
}
```

Figure 4.7 Dining philosophers solution using semaphores.