(Good) Dining Philosophers
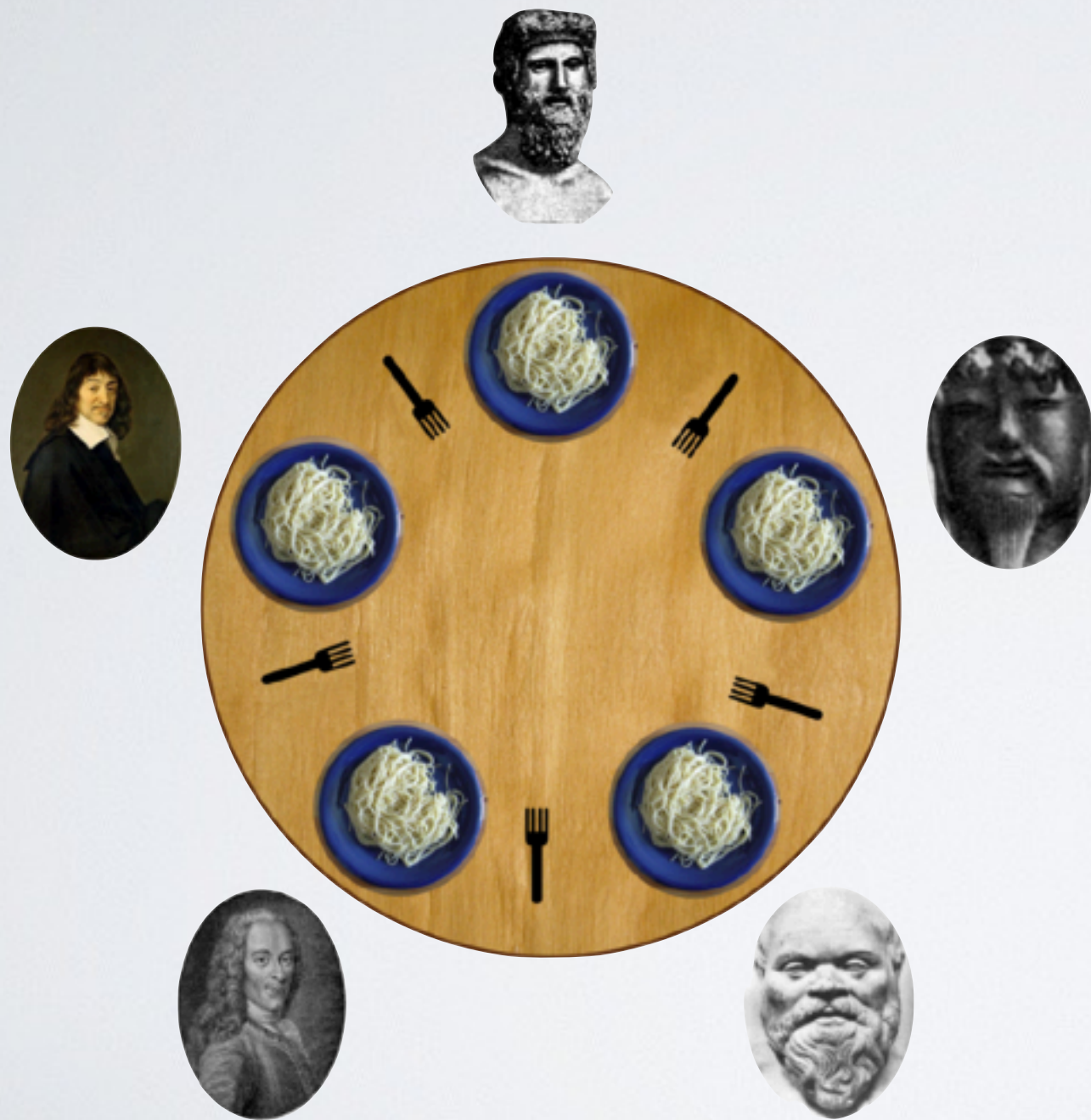


```
for(i=0, i<n, i++){
    init(fork[i], 1)
}
```

```
void philosopher (i, n) {
  while(1){
    if ((i+1) == n){
      sem_wait(fork[(i + 1)% n])
      sem_wait(fork[i])
    }else{
      sem_wait(fork[i])
      sem_wait(fork[(i + 1)% n])
    }
    eat & think
    sem_signal(fork[i])
    sem_signal(fork[(i + 1)% n])
  }
}
```

image from *wikipedia*

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