

Lab 5 Assignment

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1 Test Cases :

1.1 case 1:

- output:

```
Philosopher 4 is eating.  
Philosopher 1 is eating.  
Philosopher 4 has finished eating.  
Philosopher 4 is thinking.  
Philosopher 3 is eating.  
Philosopher 1 has finished eating.
```

1.2 case 2:

- output (Round-Robin):

```
Philosopher 4 is thinking.  
Philosopher 3 is eating.  
Philosopher 1 has finished eating.  
Philosopher 1 is thinking.  
Philosopher 0 is eating.
```

1.3 case 3:

- output:

```
Philosopher 1 ate 4 times,  
Philosopher 2 ate 4 times,  
Philosopher 3 ate 5 times,  
Philosopher 4 ate 4 times,
```

1.4 case 4:

- output:

```
Philosopher 1 is thinking.  
Philosopher 3 is thinking.  
Philosopher 2 is thinking.  
Philosopher 4 is thinking.  
Philosopher 3 is eating.
```

1.5 case 5:

- output:

```
Simulation Results:  
Philosopher 0 ate 5 times, average wait time: 0.30 seconds.  
Philosopher 1 ate 4 times, average wait time: 0.59 seconds.  
Philosopher 2 ate 4 times, average wait time: 0.79 seconds.  
Philosopher 3 ate 5 times, average wait time: 0.38 seconds.  
Philosopher 4 ate 4 times, average wait time: 0.25 seconds.
```