Program 2B

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Compile and Executing MFQ

The below screen shots are from compiling *Scheduler$_{mfq.java}$*

```
mv Scheduler_mfq.java Scheduler.java
javac -deprecation Scheduler.java
```

Sending the starting exec to the scheduler.

```
threadOS ver 2.0:
Type ? for help
threadOS: a new thread (thread=Thread[Thread-3,5,main] tid=0 pid=-1)
-->l Test2b
l Test2b
threadOS: a new thread (thread=Thread[Thread-5,5,main] tid=1 pid=0)
threadOS: a new thread (thread=Thread[Thread-7,5,main] tid=2 pid=1)
threadOS: a new thread (thread=Thread[Thread-9,5,main] tid=3 pid=1)
threadOS: a new thread (thread=Thread[Thread-11,5,main] tid=4 pid=1)
threadOS: a new thread (thread=Thread[Thread-13,5,main] tid=5 pid=1)
threadOS: a new thread (thread=Thread[Thread-15,5,main] tid=6 pid=1)
Thread[a] is running
Thread[a] is running
```

The first result from finished thread.

```
Thread[b] is running
Thread[b]: response time = 999 turnaround time = 5504 execution time = 4505
Thread[c] is running
```

The second result from finished thread.

```
Thread[d] is running
Thread[e]: response time = 2501 turnaround time = 7506 execution time = 5005
Thread[a] is running
```

The third result from finished thread.

```
Thread[c] is running
Thread[c]: response time = 1500 turnaround time = 15012 execution time = 13512
Thread[d] is running
```

The fourth result from finished thread.

```
Thread[a] is running
Thread[a]: response time = 498 turnaround time = 22521 execution time = 22023
Thread[d] is running
```

The fifth and final result from finished thread.

```
Thread[d] is running
Thread[d]: response time = 2001 turnaround time = 29025 execution time = 27024
Test2b finished; total time = 31028
-->
```

Runtime Table

	Response	TAT	Exec Join	Total
b	999	5504	4505	
e	2501	7506	5005	
c	1500	15012	13512	
a	498	22521	22023	
d	2001	29025	27024	
avg.	1499.8	15913.6	14413.8	31028

Compile and Executing RR

The below screen shots are from compiling *Scheduler_{rr.java}*

```
mv Scheduler_rr.java Scheduler.java
javac -deprecation Scheduler.java
```

Sending the starting exec to the scheduler.

```
threadOS ver 2.0:
Type ? for help
threadOS: a new thread (thread=Thread[Thread-3,5,main] tid=0 pid=-1)
-->l Test2b
l Test2b
threadOS: a new thread (thread=Thread[Thread-5,5,main] tid=1 pid=0)
threadOS: a new thread (thread=Thread[Thread-7,5,main] tid=2 pid=1)
threadOS: a new thread (thread=Thread[Thread-9,5,main] tid=3 pid=1)
threadOS: a new thread (thread=Thread[Thread-11,5,main] tid=4 pid=1)
threadOS: a new thread (thread=Thread[Thread-13,5,main] tid=5 pid=1)
threadOS: a new thread (thread=Thread[Thread-15,5,main] tid=6 pid=1)
Thread[a] is running
Thread[a] is running
```

The first result from finished thread.

```
Thread[e] is running
Thread[e] is running
Thread[e]: response time = 6001 turnaround time = 6503 execution time = 502
Thread[a] is running
Thread[a] is running
```

The second result from finished thread.

```
hread[a] is running
hread[a] is running
hread[b]: response time = 2999 turnaround time = 9504 execution time = 6505
hread[c] is running
hread[c] is running
```

The third result from finished thread.

```
Thread[a] is running
Thread[c]: response time = 4000 turnaround time = 19507 execution time = 15507
Thread[d] is running
```

The fourth result from finished thread.

```
Thread[d] is running
Thread[a]: response time = 1999 turnaround time = 26510 execution time = 24511
Thread[d] is running
```

The fifth and final result from finished thread.

```
Thread[d] is running
Thread[d]: response time = 5001 turnaround time = 29510 execution time = 24509
Test2b finished; total time = 29512
```

Runtime Table

	Response	TAT	Exec Join	Total
e	6001	6503	502	
b	2999	9504	6505	
c	4000	19507	15507	
a	1999	26510	24511	
d	5001	29510	24509	
avg.	4000	18306.8	14306.8	29512