

# Program 3B

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August 4, 2024

## Compiling & Executed

The screenshot below shows the compiling of the *Kernel.java*, *SyncQueue.java*, *QueueNode.java* files and the execution of the Test2 class using the ThreadOS Shell.

```
→ hw-3b git:(main) X javac QueueNode.java SyncQueue.java Kernel.java
Note: Kernel.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
→ hw-3b git:(main) X java Boot
threadOS ver 2.0:
Type ? for help
threadOS: a new thread (thread=Thread[Thread-3,2,main] tid=0 pid=-1)
-->l Shell
l Shell
threadOS: a new thread (thread=Thread[Thread-5,2,main] tid=1 pid=0)
shell[1]% Test2
Test2
threadOS: a new thread (thread=Thread[Thread-7,2,main] tid=2 pid=1)
threadOS: a new thread (thread=Thread[Thread-9,2,main] tid=3 pid=2)
threadOS: a new thread (thread=Thread[Thread-11,2,main] tid=4 pid=2)
threadOS: a new thread (thread=Thread[Thread-13,2,main] tid=5 pid=2)
threadOS: a new thread (thread=Thread[Thread-15,2,main] tid=6 pid=2)
threadOS: a new thread (thread=Thread[Thread-17,2,main] tid=7 pid=2)
Thread[b]: response time = 3998 turnaround time = 4999 execution time = 1001
Thread[e]: response time = 6998 turnaround time = 7499 execution time = 501
Thread[c]: response time = 4999 turnaround time = 8002 execution time = 3003
Thread[a]: response time = 2998 turnaround time = 8003 execution time = 5005
Thread[d]: response time = 5999 turnaround time = 12008 execution time = 6009
Test2b finished; total time = 12009
shell[2]% exit
exit
-->q
q
```