Below are the screenshots for outputs as well as performance of each algorithms in Test2 and Test2b.

* Test2b:
  + Scheduler\_pri.java

cnv3103@csslab7h:~/CSS430$ cd ThreadOS

cnv3103@csslab7h:~/CSS430/ThreadOS$ cp Scheduler\_pri.java Scheduler.java

cnv3103@csslab7h:~/CSS430/ThreadOS$ javac Scheduler.ajva

error: Class names, 'Scheduler.ajva', are only accepted if annotation processing is explicitly requested

1 error

cnv3103@csslab7h:~/CSS430/ThreadOS$ javac Scheduler.java

cnv3103@csslab7h:~/CSS430/ThreadOS$ java Boot

threadOS ver 2.0:

Type ? for help

threadOS: a new thread (thread=Thread[Thread-3,2,main] tid=0 pid=-1)

-->l Test2b

l Test2b

threadOS: a new thread (thread=Thread[Thread-5,2,main] tid=1 pid=0)

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=1)

threadOS: a new thread (thread=Thread[Thread-11,2,main] tid=4 pid=1)

threadOS: a new thread (thread=Thread[Thread-13,2,main] tid=5 pid=1)

threadOS: a new thread (thread=Thread[Thread-15,2,main] tid=6 pid=1)

Thread[a] is running

Thread[a] is running

Thread[a] is running

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Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[b] is running

Thread[a] is running

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Thread[a] is running

Thread[b] is running

Thread[a] is running

Thread[b] is running

Thread[a] is running

Thread[b] is running

Thread[a] is running

Thread[c] is running

Thread[b]: response time = 2997 turnaround time = 4000 execution time = 1003

Thread[a] is running

Thread[c] is running

Thread[a] is running

Thread[c] is running

Thread[a] is running

Thread[c] is running

Thread[a] is running

Thread[c] is running

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Thread[c] is running

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Thread[e] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[e] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[e] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[e] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[e] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[e]: response time = 5998 turnaround time = 6499 execution time = 501

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[d] is running

Thread[c] is running

Thread[a] is running

Thread[d] is running

Thread[c]: response time = 3998 turnaround time = 7006 execution time = 3008

Thread[a]: response time = 1996 turnaround time = 7011 execution time = 5015

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

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Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d]: response time = 4997 turnaround time = 11015 execution time = 6018

Test2b finished; total time = 11021

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* + Scheduler\_rr.java

cnv3103@csslab7h:~/CSS430/ThreadOS$ cp Scheduler\_rr.java Scheduler.java

cnv3103@csslab7h:~/CSS430/ThreadOS$ javac Scheduler.ajva

error: Class names, 'Scheduler.ajva', are only accepted if annotation processing is explicitly requested

1 error

cnv3103@csslab7h:~/CSS430/ThreadOS$ javac Scheduler.java

Note: Scheduler.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

cnv3103@csslab7h:~/CSS430/ThreadOS$ java Boot

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

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[b] is running

Thread[b] is running

Thread[b] is running

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Thread[d] is running

Thread[d] is running

Thread[e] is running

Thread[e] is running

Thread[e] is running

Thread[e] is running

Thread[e] is running

Thread[e]: response time = 5998 turnaround time = 6499 execution time = 501

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[b]: response time = 2996 turnaround time = 9502 execution time = 6506

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

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Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[c]: response time = 3998 turnaround time = 19506 execution time = 15508

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

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Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[a]: response time = 1996 turnaround time = 26509 execution time = 24513

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d]: response time = 4998 turnaround time = 29510 execution time = 24512

Test2b finished; total time = 29516

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* + Scheduler\_mfq.java:

cnv3103@csslab7h:~/CSS430/ThreadOS$ cp Scheduler\_mfq.java Scheduler.java

cnv3103@csslab7h:~/CSS430/ThreadOS$ javac Scheduler.java

Note: Scheduler.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

cnv3103@csslab7h:~/CSS430/ThreadOS$ java Boot

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

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[b] is running

Thread[b] is running

Thread[b] is running

Thread[b] is running

Thread[b] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

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Thread[d] is running

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Thread[c] is running

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Thread[c] is running

Thread[c] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[e]: response time = 2495 turnaround time = 5997 execution time = 3502

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[b]: response time = 994 turnaround time = 7500 execution time = 6506

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[c] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

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Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[c]: response time = 1494 turnaround time = 17506 execution time = 16012

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

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Thread[a] is running

Thread[a] is running

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Thread[a] is running

Thread[a] is running

Thread[a] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[a]: response time = 493 turnaround time = 25011 execution time = 24518

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d] is running

Thread[d]: response time = 1994 turnaround time = 28012 execution time = 26018

Test2b finished; total time = 28520

* Test2: performance comparison between rr and mfq.

A screenshot of a computer

Description automatically generated with medium confidence

* Performance comparison for Test2 and Test2b

Graphical user interface, application, table, Excel

Description automatically generated

* Mfq performs a little bit better in terms of average response time and average TAT