

CMPE 382 Operating Systems, Spring 2023-2024

Homework 2- Synchronization: Semaphores and Critical Section Implementation Outputs

This PDF file includes results for: **29** and **40** txt files for (threads: 1 – 4 – 10 – 32)

29 Files – 1 Thread:

```
baranercan@baran-ubuntu:~/desktop/382/HW 11$ time ./main myDir 1
The PID of the main process is 36226
Thread 0 has found 35 primes in file file1.txt.
Thread 0 has found 39 primes in file file27.txt.
Thread 0 has found 38 primes in file file10.txt.
Thread 0 has found 1 primes in file file4.txt.
Thread 0 has found 69 primes in file file25.txt.
Thread 0 has found 83 primes in file file6.txt.
Thread 0 has found 81 primes in file file12.txt.
Thread 0 has found 89 primes in file file9.txt.
Thread 0 has found 98 primes in file file26.txt.
Thread 0 has found 76 primes in file file22.txt.
Thread 0 has found 10 primes in file file17.txt.
Thread 0 has found 12 primes in file file2.txt.
Thread 0 has found 46 primes in file file29.txt.
Thread 0 has found 53 primes in file file18.txt.
Thread 0 has found 50 primes in file file19.txt.
Thread 0 has found 32 primes in file file21.txt.
Thread 0 has found 93 primes in file file13.txt.
Thread 0 has found 53 primes in file file7.txt.
Thread 0 has found 61 primes in file file8.txt.
Thread 0 has found 38 primes in file file20.txt.
Thread 0 has found 64 primes in file file24.txt.
Thread 0 has found 21 primes in file file3.txt.
Thread 0 has found 13 primes in file file23.txt.
Thread 0 has found 89 primes in file file15.txt.
Thread 0 has found 95 primes in file file11.txt.
Thread 0 has found 22 primes in file file16.txt.
Thread 0 has found 90 primes in file file28.txt.
Thread 0 has found 82 primes in file file5.txt.
Thread 0 has found 18 primes in file file14.txt.

real    0m0.039s
user    0m0.035s
sys     0m0.004s
```

29 Files – 4 Thread:

```
baranercan@baran-ubuntu:~/desktop/382/HW 11$ time ./main myDir 4
The PID of the main process is 36256
Thread 0 has found 35 primes in file file1.txt.
Thread 2 has found 50 primes in file file19.txt.
Thread 0 has found 39 primes in file file27.txt.
Thread 1 has found 89 primes in file file9.txt.
Thread 2 has found 32 primes in file file21.txt.
Thread 0 has found 38 primes in file file10.txt.
Thread 0 has found 1 primes in file file4.txt.
Thread 0 has found 69 primes in file file25.txt.
Thread 2 has found 93 primes in file file13.txt.
Thread 1 has found 98 primes in file file26.txt.
Thread 2 has found 53 primes in file file7.txt.
Thread 0 has found 83 primes in file file6.txt.
Thread 1 has found 76 primes in file file22.txt.
Thread 1 has found 10 primes in file file17.txt.
Thread 3 has found 21 primes in file file3.txt.
Thread 1 has found 12 primes in file file2.txt.
Thread 3 has found 13 primes in file file23.txt.
Thread 2 has found 61 primes in file file8.txt.
Thread 1 has found 46 primes in file file29.txt.
Thread 3 has found 89 primes in file file15.txt.
Thread 0 has found 81 primes in file file12.txt.
Thread 0 has found 18 primes in file file14.txt.
Thread 2 has found 38 primes in file file20.txt.
Thread 1 has found 53 primes in file file18.txt.
Thread 3 has found 95 primes in file file11.txt.
Thread 2 has found 64 primes in file file24.txt.
Thread 3 has found 22 primes in file file16.txt.
Thread 3 has found 90 primes in file file28.txt.
Thread 3 has found 82 primes in file file5.txt.

real    0m0.019s
user    0m0.029s
sys     0m0.015s
```

29 Files – 10 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 10
The PID of the main process is 36238
Thread 0 has found 35 primes in file file1.txt.
Thread 1 has found 38 primes in file file10.txt.
Thread 1 has found 1 primes in file file4.txt.
Thread 0 has found 39 primes in file file27.txt.
Thread 5 has found 10 primes in file file17.txt.
Thread 2 has found 69 primes in file file25.txt.
Thread 5 has found 12 primes in file file2.txt.
Thread 6 has found 46 primes in file file29.txt.
Thread 0 has found 64 primes in file file24.txt.
Thread 4 has found 98 primes in file file26.txt.
Thread 6 has found 53 primes in file file18.txt.
Thread 0 has found 21 primes in file file3.txt.
Thread 0 has found 13 primes in file file23.txt.
Thread 2 has found 83 primes in file file6.txt.
Thread 4 has found 76 primes in file file22.txt.
Thread 3 has found 81 primes in file file12.txt.
Thread 8 has found 93 primes in file file13.txt.
Thread 0 has found 89 primes in file file15.txt.
Thread 9 has found 61 primes in file file8.txt.
Thread 3 has found 89 primes in file file9.txt.
Thread 9 has found 38 primes in file file20.txt.
Thread 8 has found 53 primes in file file7.txt.
Thread 7 has found 50 primes in file file19.txt.
Thread 0 has found 95 primes in file file11.txt.
Thread 0 has found 22 primes in file file16.txt.
Thread 7 has found 32 primes in file file21.txt.
Thread 0 has found 90 primes in file file28.txt.
Thread 0 has found 82 primes in file file5.txt.
Thread 0 has found 18 primes in file file14.txt.

real    0m0,017s
user    0m0,031s
sys     0m0,012s
```

29 Files – 32 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 32
The PID of the main process is 36383
Thread 0 has found 35 primes in file file1.txt.
Thread 0 has found 39 primes in file file27.txt.
Thread 0 has found 38 primes in file file10.txt.
Thread 0 has found 1 primes in file file4.txt.
Thread 0 has found 69 primes in file file25.txt.
Thread 0 has found 83 primes in file file6.txt.
Thread 0 has found 81 primes in file file12.txt.
Thread 0 has found 89 primes in file file9.txt.
Thread 0 has found 98 primes in file file26.txt.
Thread 0 has found 76 primes in file file22.txt.
Thread 0 has found 10 primes in file file17.txt.
Thread 0 has found 12 primes in file file2.txt.
Thread 0 has found 46 primes in file file29.txt.
Thread 0 has found 53 primes in file file18.txt.
Thread 0 has found 50 primes in file file19.txt.
Thread 0 has found 32 primes in file file21.txt.
Thread 0 has found 93 primes in file file13.txt.
Thread 0 has found 53 primes in file file7.txt.
Thread 0 has found 61 primes in file file8.txt.
Thread 0 has found 38 primes in file file20.txt.
Thread 0 has found 64 primes in file file24.txt.
Thread 0 has found 21 primes in file file3.txt.
Thread 0 has found 13 primes in file file23.txt.
Thread 0 has found 89 primes in file file15.txt.
Thread 0 has found 95 primes in file file11.txt.
Thread 0 has found 22 primes in file file16.txt.
Thread 0 has found 90 primes in file file28.txt.
Thread 0 has found 82 primes in file file5.txt.
Thread 0 has found 18 primes in file file14.txt.

real    0m0,040s
user    0m0,035s
sys     0m0,009s
```

40 Files – 1 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 1
The PID of the main process is 36573
Thread 0 has found 2 primes in file file35.txt.
Thread 0 has found 24 primes in file file1.txt.
Thread 0 has found 92 primes in file file31.txt.
Thread 0 has found 75 primes in file file27.txt.
Thread 0 has found 13 primes in file file36.txt.
Thread 0 has found 52 primes in file file40.txt.
Thread 0 has found 45 primes in file file32.txt.
Thread 0 has found 68 primes in file file10.txt.
Thread 0 has found 32 primes in file file4.txt.
Thread 0 has found 2 primes in file file25.txt.
Thread 0 has found 7 primes in file file6.txt.
Thread 0 has found 80 primes in file file12.txt.
Thread 0 has found 61 primes in file file9.txt.
Thread 0 has found 0 primes in file file26.txt.
Thread 0 has found 48 primes in file file39.txt.
Thread 0 has found 86 primes in file file22.txt.
Thread 0 has found 64 primes in file file17.txt.
Thread 0 has found 60 primes in file file2.txt.
Thread 0 has found 63 primes in file file29.txt.
Thread 0 has found 85 primes in file file18.txt.
Thread 0 has found 71 primes in file file19.txt.
Thread 0 has found 39 primes in file file34.txt.
Thread 0 has found 27 primes in file file21.txt.
Thread 0 has found 86 primes in file file13.txt.
Thread 0 has found 111 primes in file file7.txt.
Thread 0 has found 1 primes in file file8.txt.
Thread 0 has found 35 primes in file file20.txt.
Thread 0 has found 7 primes in file file33.txt.
Thread 0 has found 71 primes in file file24.txt.
Thread 0 has found 8 primes in file file3.txt.
Thread 0 has found 39 primes in file file23.txt.
Thread 0 has found 5 primes in file file30.txt.
Thread 0 has found 39 primes in file file15.txt.
Thread 0 has found 98 primes in file file11.txt.
Thread 0 has found 97 primes in file file38.txt.
Thread 0 has found 57 primes in file file37.txt.
Thread 0 has found 14 primes in file file16.txt.
Thread 0 has found 50 primes in file file28.txt.
Thread 0 has found 63 primes in file file5.txt.
Thread 0 has found 46 primes in file file14.txt.

real    0m0.045s
user    0m0.044s
sys     0m0.000s
```

40 Files – 4 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 4
The PID of the main process is 36581
Thread 0 has found 2 primes in file file35.txt.
Thread 1 has found 7 primes in file file6.txt.
Thread 0 has found 24 primes in file file1.txt.
Thread 3 has found 39 primes in file file23.txt.
Thread 3 has found 5 primes in file file30.txt.
Thread 2 has found 71 primes in file file19.txt.
Thread 1 has found 80 primes in file file12.txt.
Thread 3 has found 39 primes in file file15.txt.
Thread 2 has found 39 primes in file file34.txt.
Thread 0 has found 92 primes in file file31.txt.
Thread 1 has found 61 primes in file file9.txt.
Thread 1 has found 0 primes in file file26.txt.
Thread 2 has found 27 primes in file file21.txt.
Thread 1 has found 48 primes in file file39.txt.
Thread 0 has found 75 primes in file file27.txt.
Thread 3 has found 98 primes in file file11.txt.
Thread 0 has found 13 primes in file file36.txt.
Thread 2 has found 86 primes in file file13.txt.
Thread 0 has found 52 primes in file file40.txt.
Thread 1 has found 86 primes in file file22.txt.
Thread 3 has found 97 primes in file file38.txt.
Thread 0 has found 45 primes in file file32.txt.
Thread 3 has found 57 primes in file file37.txt.
Thread 1 has found 64 primes in file file17.txt.
Thread 3 has found 14 primes in file file16.txt.
Thread 2 has found 111 primes in file file7.txt.
Thread 2 has found 1 primes in file file8.txt.
Thread 0 has found 68 primes in file file10.txt.
Thread 1 has found 60 primes in file file2.txt.
Thread 3 has found 50 primes in file file28.txt.
Thread 0 has found 32 primes in file file4.txt.
Thread 0 has found 2 primes in file file25.txt.
Thread 2 has found 35 primes in file file20.txt.
Thread 2 has found 7 primes in file file33.txt.
Thread 3 has found 63 primes in file file5.txt.
Thread 1 has found 63 primes in file file29.txt.
Thread 3 has found 46 primes in file file14.txt.
Thread 2 has found 71 primes in file file24.txt.
Thread 2 has found 8 primes in file file3.txt.
Thread 1 has found 85 primes in file file18.txt.

real    0m0.016s
user    0m0.051s
sys     0m0.000s
```

40 Files – 10 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 10
The PID of the main process is 36586
Thread 0 has found 2 primes in file file35.txt.
Thread 1 has found 13 primes in file file36.txt.
Thread 0 has found 24 primes in file file1.txt.
Thread 2 has found 32 primes in file file4.txt.
Thread 2 has found 2 primes in file file25.txt.
Thread 2 has found 7 primes in file file6.txt.
Thread 1 has found 52 primes in file file40.txt.
Thread 1 has found 45 primes in file file32.txt.
Thread 0 has found 92 primes in file file31.txt.
Thread 8 has found 39 primes in file file15.txt.
Thread 1 has found 68 primes in file file10.txt.
Thread 0 has found 75 primes in file file27.txt.
Thread 5 has found 71 primes in file file19.txt.
Thread 2 has found 80 primes in file file12.txt.
Thread 6 has found 111 primes in file file7.txt.
Thread 6 has found 1 primes in file file8.txt.
Thread 6 has found 35 primes in file file20.txt.
Thread 6 has found 7 primes in file file33.txt.
Thread 3 has found 61 primes in file file9.txt.
Thread 3 has found 0 primes in file file26.txt.
Thread 4 has found 64 primes in file file17.txt.
Thread 5 has found 39 primes in file file34.txt.
Thread 3 has found 48 primes in file file39.txt.
Thread 7 has found 71 primes in file file24.txt.
Thread 4 has found 60 primes in file file2.txt.
Thread 7 has found 8 primes in file file3.txt.
Thread 5 has found 27 primes in file file21.txt.
Thread 7 has found 39 primes in file file23.txt.
Thread 3 has found 86 primes in file file22.txt.
Thread 4 has found 63 primes in file file29.txt.
Thread 5 has found 86 primes in file file13.txt.
Thread 9 has found 14 primes in file file16.txt.
Thread 7 has found 5 primes in file file30.txt.
Thread 8 has found 98 primes in file file11.txt.
Thread 9 has found 50 primes in file file28.txt.
Thread 4 has found 85 primes in file file18.txt.
Thread 9 has found 63 primes in file file5.txt.
Thread 8 has found 97 primes in file file38.txt.
Thread 9 has found 46 primes in file file14.txt.
Thread 8 has found 57 primes in file file37.txt.

real    0m0.016s
user    0m0.037s
sys      0m0.011s
```

40 Files – 32 Thread:

```
baranercan@baran-ubuntu:~/Desktop/382/HW II$ time ./main myDir 32
The PID of the main process is 36597
Thread 0 has found 2 primes in file file35.txt.
Thread 1 has found 24 primes in file file1.txt.
Thread 0 has found 39 primes in file file15.txt.
Thread 6 has found 45 primes in file file32.txt.
Thread 5 has found 52 primes in file file40.txt.
Thread 27 has found 7 primes in file file33.txt.
Thread 2 has found 92 primes in file file31.txt.
Thread 20 has found 71 primes in file file19.txt.
Thread 0 has found 98 primes in file file11.txt.
Thread 3 has found 75 primes in file file27.txt.
Thread 21 has found 39 primes in file file34.txt.
Thread 22 has found 27 primes in file file21.txt.
Thread 26 has found 35 primes in file file20.txt.
Thread 19 has found 85 primes in file file18.txt.
Thread 0 has found 97 primes in file file38.txt.
Thread 29 has found 8 primes in file file3.txt.
Thread 23 has found 86 primes in file file13.txt.
Thread 4 has found 13 primes in file file36.txt.
Thread 7 has found 68 primes in file file10.txt.
Thread 25 has found 1 primes in file file8.txt.
Thread 18 has found 63 primes in file file29.txt.
Thread 0 has found 57 primes in file file37.txt.
Thread 9 has found 2 primes in file file25.txt.
Thread 28 has found 71 primes in file file24.txt.
Thread 0 has found 14 primes in file file16.txt.
Thread 16 has found 64 primes in file file17.txt.
Thread 17 has found 60 primes in file file2.txt.
Thread 12 has found 61 primes in file file9.txt.
Thread 0 has found 50 primes in file file28.txt.
Thread 8 has found 32 primes in file file4.txt.
Thread 10 has found 7 primes in file file6.txt.
Thread 13 has found 0 primes in file file26.txt.
Thread 31 has found 5 primes in file file30.txt.
Thread 14 has found 48 primes in file file39.txt.
Thread 30 has found 39 primes in file file23.txt.
Thread 11 has found 80 primes in file file12.txt.
Thread 0 has found 63 primes in file file5.txt.
Thread 24 has found 111 primes in file file7.txt.
Thread 15 has found 86 primes in file file22.txt.
Thread 0 has found 46 primes in file file14.txt.

real    0m0.018s
user    0m0.053s
sys      0m0.005s
```