

Operating Systems

Project 14

Haukur Óskar Þorgeirsson
hth152@hi.is

Matthías Páll Gissurarson
mpg3@hi.is

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1. Following is the modified code.

RaceThreadsSemaphore.java

```
1 import java.util.concurrent.Semaphore;
2 public class RaceThreadsSemaphore
3 {
4     volatile int in;
5     public int COUNT_MAX;
6     private Semaphore sem = new Semaphore(1);
7     //If we had 2 here, 2 threads would enter the
8     critical section at the same time.
9
10    public class CountThread extends Thread
11    {
12        public CountThread(String name)
13        {
14            super(name);
15        }
16        public void run()
17        {
18            for(int i = 0; i < COUNT_MAX; i
19                ++
20            {
21                sem.acquireUninterruptibly();
22                System.out.print(this.
23                    getName());
24                System.out.flush();
25                in++;
26                sem.release();
27            }
28        }
29    }
30
31    public static void main(String[] args)
32    {
33        RaceThreadsSemaphore x = new
34            RaceThreadsSemaphore(Integer.
35                parseInt(args[0]));
```

