1) All tasks same priority (run-to-completion)

```
(86985) lab2: T1: took LED mutex (wait=0 ms)
(86986) lab2: T1: LED ON (busy-wait 500 ms)
(87495) lab2: T1: took LED mutex (wait=0 ms)
(87496) lab2: T1: LED ON (busy-wait 500 ms)
(87755) lab2: T2: took LED mutex (wait=0 ms)
(87756) lab2: T2:
                                     LED OFF (delay 1000 ms)
                 lab2: T3:
lab2: T1:
lab2: T1:
(87775)
(88005)
                                     took LED mutex (wait=0 ms)
LED ON (busy-wait 500 ms)
(88006)
(88515) lab2: T1:
                                     took LED mutex (wait=0 ms)
                                     LED ON (busy-wait 500 ms)
took LED mutex (wait=0 ms)
LED OFF (delay 1000 ms)
tick=8856
(88755) lab2: T2:
(88756) lab2: T2:
(88756) lab2: T2:
(88775) lab2: T3:
(89025) lab2: T1:
(89026) lab2: T1:
                                     took LED mutex (wait=0 ms)
                                     LED ON (busy-wait 500 ms)
(89535) lab2: T1: took LED mutex (wait=0 ms)
(89536) lab2: T1: LED ON (busy-wait 500 ms)
(89536) lab2: T2: took LED mutex (wait=0 ms)
(89755) lab2: T2: LED OFF (delay 1000 ms)
(89775) lab2: T3: tick=8956
(89775) lab2: T3:
(90045) lab2: T1:
                                     took LED mutex (wait=0 ms)
(90045) Tab2: T1:
(90046) Tab2: T1:
(90556) Tab2: T1:
(90557) Tab2: T1:
(90756) Tab2: T2:
(90757) Tab2: T2:
                                     took LED mutex (wait=0 ms)
LED ON (busy-wait 500 ms)
                                     took LED mutex (wait=0 ms)
                                     LED OFF (delay 1000 ms)
(90776) lab2: T3:
(91066) lab2: T1:
(91067) lab2: T1:
(91576) lab2: T1:
                                     took LED mutex (wait=0 ms)
LED ON (busy-wait 500 ms)
                                     took LED mutex (wait=0 ms)
(91577) lab2: T1:
(91756) lab2: T2:
                                     LED ON (busy-wait 500 ms)
                                     took LED mutex (wait=0 ms)
                lab2: T2:
lab2: T3:
lab2: T1:
lab2: T1:
                                     LED OFF (delay 1000 ms)
tick=9156
took LED mutex (wait=0 ms)
(91757)
(91776)
                                     LED ON (busy-wait 500 ms)
(92087)
(92596) lab2: T1:
                                     took LED mutex (wait=0 ms)
(92756)
(92757)
(92776)
                 lab2: T2:
lab2: T2:
lab2: T3:
                                     took LED mutex (wait=0 ms)
LED OFF (delay 1000 ms)
tick=9256
                                     took LED mutex (wait=0 ms)
 (93616)
                 lab2: T1: took LED mutex (wait=0 ms)
                 lab2:
                             T1:
                                     LED ON (busy-wait 500 ms)
```

3) (a) **T1 > T2 > T3** (run-to-completion)

2) (b) No priority inheritance

```
(19181) lab2: T2: took LED sem (wait=0 ms)
(19182) lab2: T2: LED OFF (delay 1000 ms)
(19183) lab2: T3: tick=1898
(19191) lab2: T1: took LED sem (wait=0 ms)
(19193) lab2: T1: LED ON (busy-wait 500 ms)
(19711) lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
(20211)
        lab2: T2: took LED sem (wait=0 ms)
       lab2: T2: LED OFF (delay 1000 ms)
(20212)
(20213) lab2: T3: tick=2001
(20221)
       lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
(20742)
       lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
        lab2: T2: LED OFF (delay 1000 ms)
(21243)
(21244) lab2: T3: tick=2104
(21252)
       lab2: T1: took LED sem (wait=0 ms)
(21254)
       lab2: T1: LED ON (busy-wait 500 ms)
(21772)
       lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
(22273)
        lab2: T2: LED OFF (delay 1000 ms)
(22274) lab2: T3: tick=2207
(22282)
       lab2: T1: took LED sem (wait=0 ms)
(22284) lab2: T1: LED ON (busy-wait 500 ms)
(22802) lab2: T1: took LED sem (wait=0 ms)
(22803) lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
(23303) lab2: T2: LED OFF (delay 1000 ms)
(23304)
       lab2: T3: tick=2310
(23312) lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
(23314)
(23832) lab2: T1: took LED sem (wait=0 ms)
(23833) lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
(24333) lab2: T2: LED OFF (delay 1000 ms)
(24334)
        lab2: T3: tick=2413
(24342) lab2: T1: took LED sem (wait=0 ms)
       lab2: T1: LED ON (busy-wait 500 ms)
(24862) lab2: T1: took LED sem (wait=0 ms)
(24863)
       lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
(25362)
       lab2: T2: LED OFF (delay 1000 ms)
(25363)
(25364)
        lab2: T3: tick=2516
       lab2: T1: took LED sem (wait=0 ms)
(25372)
(25374) lab2: T1: LED ON (busy-wait 500 ms)
(25893) lab2: T1: took LED sem (wait=0 ms)
        lab2: T1: LED ON (busy-wait 500 ms)
       lab2: T2: took LED sem (wait=0 ms)
       lab2: T2: LED OFF (delay 1000 ms)
(26395) lab2: T3: tick=2619
(26403) lab2: T1: took LED sem (wait=0 ms)
(26405) lab2: T1: LED ON (busy-wait 500 ms)
```

(c) Priority inheritance enabled

```
(10001) lab2: T1: LED ON (busy-wait 500 ms)
(10520) lab2: T1: took LED mutex (wait=0 ms)
(10521) lab2: T1: LED ON (busy-wait 500 ms)
(11020) lab2: T2: took LED mutex (wait=0 ms)
(11021) lab2: T2: LED OFF (delay 1000 ms)
(11022) lab2: T3: tick=1082
(11030) lab2: T1: took LED mutex (wait=0 ms)
(11033) lab2: T1: LED ON (busy-wait 500 ms)
(11550) lab2: T1: took LED mutex (wait=0 ms)
(11551) lab2: T1: LED ON (busy-wait 500 ms)
(12050) lab2: T2: took LED mutex (wait=0 ms)
(12051) lab2: T2: LED OFF (delay 1000 ms)
(12052) lab2: T3: tick=1185
(12060) lab2: T1: took LED mutex (wait=0 ms)
(12063) lab2: T1: LED ON (busy-wait 500 ms)
(12580) lab2: T1: took LED mutex (wait=0 ms)
(12581) lab2: T1: LED ON (busy-wait 500 ms)
(13080) lab2: T2: took LED mutex (wait=0 ms)
(13081) lab2: T2: LED OFF (delay 1000 ms)
(13082) lab2: T3: tick=1288
(13090) lab2: T1: took LED mutex (wait=0 ms)
(13093) lab2: T1: LED ON (busy-wait 500 ms)
(13610) lab2: T1: took LED mutex (wait=0 ms)
(13611) lab2: T1: LED ON (busy-wait 500 ms)
(14110) lab2: T2: took LED mutex (wait=0 ms)
(14111) lab2: T2: LED OFF (delay 1000 ms)
(14112) lab2: T3: tick=1391
(14120) lab2: T1: took LED mutex (wait=0 ms)
(14123) lab2: T1: LED ON (busy-wait 500 ms)
(14640) lab2: T1: took LED mutex (wait=0 ms)
(14641) lab2: T1: LED ON (busy-wait 500 ms)
(15140) lab2: T2: took LED mutex (wait=0 ms)
(15141) lab2: T2: LED OFF (delay 1000 ms)
(15142) lab2: T3: tick=1494
(15150) lab2: T1: took LED mutex (wait=0 ms)
(15153) lab2: T1: LED ON (busy-wait 500 ms)
(15671) lab2: T1: took LED mutex (wait=0 ms)
(15672) lab2: T1: LED ON (busy-wait 500 ms)
(16171) lab2: T2: took LED mutex (wait=0 ms)
(16172) lab2: T2: LED OFF (delay 1000 ms)
(16173) lab2: T3: tick=1597
(16181) lab2: T1: took LED mutex (wait=0 ms)
(16184) lab2: T1: LED ON (busy-wait 500 ms)
(16701) lab2: T1: took LED mutex (wait=0 ms)
(16702) lab2: T1: LED ON (busy-wait 500 ms)
(17201) lab2: T2: took LED mutex (wait=0 ms)
(17202) lab2: T2: LED OFF (delay 1000 ms)
(17203) lab2: T3: tick=1700
(17211) lab2: T1: took LED mutex (wait=0 ms)
(17214) lab2: T1: LED ON (busy-wait 500 ms)
(17731) lab2: T1: took LED mutex (wait=0 ms)
(17732) lab2: T1: LED ON (busy-wait 500 ms)
```