

Utilize semaphores instead of mutexes in your solution to problem 2a.

System: Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz

CPU: 28

Sockets: 2

Cores per socket: 14

Threads per core: 1

Number of darts: 1, 000, 000, 0

Number of threads: 28

Result:

```
[luo.qiu@c2177 hw2]$ ./a.out
number of darts:
10000000
number of threads:
28
total time is: 0.060000s
3.14159255358952238524
```