

## Homework 2

### Problem 2.1

**Solution:**

The code for this problem can be found in *coins.c*. And these are the times for the three scenarios.

People	Nr. flips	Scenario 1	Scenario 2	Scenario 3
100	10000	346.606 ms	2783.889 ms	19585.805 ms
200	10000	596.909 ms	3087.867 ms	23795.931 ms
100	20000	674.569 ms	2537.370 ms	15135.438 ms
200	20000	925.446 ms	5493.541 ms	42423.455 ms

Please ignore the high timings as this was computed on a Virtual Machine.

From the results we can see that scenario 1 takes the least amount of time, then it is scenario 2 and lastly scenario 3. Although the amount of flips is the same in all of them, scenario 2 has more locks and unlocks than scenario 1, and scenario 3 has more locks and unlocks than scenario 2.