# EECS 233 Homework 2 *Sample Report*

**Part C:** Output using maxValue = 7

numPersons = 3, P = 210, time = 0 msec

numPersons = 4, P = 840, time = 78 msec

numPersons = 5, P = 2520, time = 1562 msec

numPersons = 6, P = 5040, time = 19141 msec

numPersons = 7, P = 5040, time = 121798 msec

**Part D:** Output using numPersons = 5

maxValue = 5, P = 120, time = 16 msec

maxValue = 6, P = 720, time = 203 msec

maxValue = 7, P = 2520, time = 1547 msec

maxValue = 8, P = 6720, time = 8344 msec

**Part E:**

The run time for C grew at a much higher rate than the run time for D. C increased by a factor that always seemed greater than that of D (see table below). NOTE: Table was not required.

|  |  |  |  |
| --- | --- | --- | --- |
| C Time | Increase ratio | D Time | Increase ratio |
| 78 |  | 16 |  |
| 1562 | 20.026 | 203 | 12.688 |
| 19141 | 12.254 | 1547 | 7.6207 |
| 121798 | 6.3632 | 8344 | 5.3937 |

**EXTRA CREDIT:**

Incomplete. More coming...

maxValue ^ (2 \* numPersons)