Brennan McFarland
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Homework 4

2.
For 1-4 processes, the program outputs:
How many processes? 1
Process 9324 total time was 3.525903 seconds. x = 1000000000.

How many processes? 2
Process 9352 total time was 1.789058 seconds. x = 500000000.
Process 9351 total time was 1.790322 seconds. x = 500000000.

How many processes? 3
Process 9366 total time was 1.354642 seconds. x = 333333333.
Process 9365 total time was 1.554374 seconds. x = 333333333.
Process 9364 total time was 1.716725 seconds. x = 333333333.

How many processes? 4
Process 9385 total time was 1.452726 seconds. x = 250000000.
Process 9386 total time was 1.454252 seconds. x = 250000000.
Process 9387 total time was 1.457931 seconds. x = 250000000.
Process 9384 total time was 1.460100 seconds. x = 250000000.

This is the expected output as every process is forked when x=0 and accumulated independently to 1000000000/the number of processes. The time each process runs decreases as well because it has to accumulate to a lower number, about 3.5 seconds for 1 process, 1.8 seconds for 2, 1.5 seconds for 3, and 1.4 seconds for 4 processes.