

CS4499 - Homework 3

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February 3, 2019

1. Means

- (a) 100 elements: 0.472642
- (b) 10000 elements: 0.501303
- (c) 1000000 elements: 0.499694
- (d) 100000000 elements: 0.500002

These look like what I would expect for a random number generator. Mind you, humans are really bad at evaluating whether something is random or not. For all I know, a good random number generator would have its means deviate even more than we have here.

- 2. The graphs are at the end of this document. The graphs look like what I would expect from a random number generator.
- 3. The period is 16777216



