

CMSC 634

Assignment 3

Due: start of class on November 5th.

Please answer the following questions.

1. MCP, chapter 1, exercise 1.
2. MCP, chapter 4, exercise 4.
3. MCP, chapter 6, exercise 7.
4. What are the advantages and disadvantages of
 - (a) fixed-computation benchmarks?
 - (b) fixed-time benchmarks?
5. MCP, chapter 7, exercise 5.
6. MCP, chapter 7, exercise 6.
7. MCP, chapter 10, exercise 22. Use any pseudorandom number generator you like, but please tell us which one you use. I recommend that you generate numbers in the $[0,1)$ range. You are testing for uniformity (goodness-of-fit to a uniform distribution) of the generated numbers. You do NOT need to test the independence of the sequence (whether the sequence of generated numbers occurs in a seemingly random order).