CSE 5311 Lab Assignment 2

Due August 6

Goals:

- 1. Understanding of fundamental string preprocessing.
- 2. Understanding of KMP preprocessing.

Requirements:

- 1. Write (and test) a program to determine the shortest factor of a string using the fundamental string preprocessing algorithm.
- 2. Write (and test) a program to determine the shortest factor of a string using the KMP preprocessing algorithm.
- 3. Submit <u>printed</u> (no email) listings of your two programs and the results of executing your two programs on five significant input strings.

Getting Started:

- 1. http://reptar.uta.edu/NOTES5311/cse5311.html provides web access to C code for the two methods.
- 2. A factor w of a string x is a string that is repeated k times to give string x. For example, if x = 0.01010101 then w = 0.0101010101 then w = 0.01010101 then w = 0.01010101 then w = 0.01010101.