

CSE 5311 Lab Assignment 3

Due August 9, 2004

Goals:

Understanding of fundamental string preprocessing (Z algorithm).

Requirements:

1. Write (and test) a program to determine the shortest factor of a string using the output from the fundamental string preprocessing algorithm. The input is a single string with length no more than 80 characters. The output is the shortest factor or an indication that the input is not factorable.
2. E-mail your program to `ozcan@cse.uta.edu` before 2:45 pm on August 9.

Getting Started:

1. Code is available on the course web page and in Notes 15.
2. A factor w of a string x is a string that is repeated k times to give string x . For example, if $x = 01010101$ then $w = 01$ is the shortest factor of x since $(01)^4 = 01010101$.