

University of Waterloo

CS240 Fall 2017

Tutorial 9

Monday, November 20

Problem 1 - Suffix Tries

Create the suffix trie for “reread” and then compress it into a suffix tree.

Perform searches on the following strings: “red”, “eat” and “re”.

Problem 2 - Huffman Encoding

Apply Huffman encoding on the string $s = \text{“NINTHTUTORIAL”}$.

Show the resulting trie and give the resulting encoding for s .

Problem 3 - Run Length Encoding

Apply RLE on the string $s = \text{“10111110100110110”}$.

Afterwards decode the resulting string and show that it produces s .