

1. **Warm up:** Answer the following questions.
 - (a) Give a regular expression that matches the strings `bard` and `hard` and `beard` but not `heard`.
 - (b) If two strings of length n only share a single common character (not necessarily in the same spot), what is the shortest and longest regular expression (in terms of characters) that matches both?
 - (c) True or false: the suffix tries for `aaaak` and `kaaaa` have the same number of edges.
 - (d) What sorts of strings have binary trees as suffix tries?

2. Consider the strings `referee` and `sleeveless`.
 - (a) Construct the suffix trie, suffix tree, and suffix array for both strings.
 - (b) In terms of the number of edges, how will the suffix trie of `referee` change if the third character `f` is changed to something else?
 - (c) Combine the suffix trees of the two strings together and indicate where the longest common substring is.

3. *Tasks from Kalvis's Sample Assignment 15*