

Assignment 14

1. Construct the Longest Common Subsequence (LCS) matrix comparing the strings "aaabcaadaabaaa" and "abcdba". What is the LCS?
2. Draw a figure illustrating the comparisons done by the brute-force pattern matching algorithm for the text "aaabcaadaabaaa" and pattern "aabaaa". Determine the number of comparisons needed.
3. Draw a figure illustrating the comparisons done by the Boyer-Moore (BM) matching algorithm for the text "aaabcaadaabaaa" and pattern "aabaaa". Determine the number of comparisons needed.
4. Draw a figure illustrating the comparisons done by the Knuth-Morris-Pratt (KMP) matching algorithm for the text "aaabcaadaabaaa" and pattern "aabaaa". Determine the number of comparisons needed.

Due April 29th