University of Waterloo CS240R Fall 2017 Tutorial 8

Monday, November 13

Pattern Matching

- 1. Let P = abacabaca and T = abacabacdabaca. Search for P in T using the KMP algorithm.
- 2. Build the suffix-skip array for the following strings: cbadabacaba, ingstating, and *aabaa*.
- 3. Let P = ababbcbabcbab. Construct the last-occurrence function over the alphabet $\{a, b, c, d\}$ and the suffix-skip array. Then search for the pattern in the following text, using the Boyer-Moore algorithm: