

Tutorial 10: KMP, Boyer Moore

1. Let $P = \text{abacabaca}$ and let $T = \text{abacabacdabaca}$.
 - a) Compute the KMP failure array F for P .
 - b) Search for P in T using the KMP algorithm.
2. Consider the pattern $P = \text{ababbcbabcbab}$ over the alphabet $\Sigma = \{a, b, c, d\}$ and the following text T .

$$T = \text{bcbadababbcbcbababbbcbabcbab}$$

- a) Compute the last occurrence array L for P .
- b) Compute the good suffix array S for P .
- c) Using the Boyer-Moore algorithm, search for the pattern P in the following text T .