

## Sequence Analysis 3

Summer 2024

### Exercises

#### Number 6, Discussion: 2024-June-06

1. Given the string  $t = \text{aaabbaaacaabaab\$}$ , construct the RLBWT of  $t$  with the simple and the constant-time versions of the Move data structure.
2. Use the data structure of the previous exercise to count the number of occurrences of pattern  $p = \text{aab}$  in  $t$ .
3. Explain how the starting points of  $p$  in  $t$  can be found. Is this also possible in  $O(r)$  space and  $O(|p| + z)$  time, where  $z$  is the number of occurrences of  $p$  in  $t$ ?