

# Foundations of Information Retrieval

## Exercise 4

Issue date: 07.11.2013  
Exercise session on: 14.11.2013  
Questions to: Elena Demidova: demidova@L3S.de

### 1. Levenshtein distance

- a) Compute the Levenshtein distance between the terms „top“ and „stop“ using matrix. Use the matrix to determine the required transformations steps.


- b) Compute bi-gram based similarity between the terms „top“ and „stop“.
- c) What are advantages and disadvantages in terms of efficiency, memory consumption, and precision using Levenshtein distance for spelling correction compared to n-gram index?

