

Algorithms in Comparative Genomics, Winter 2018/19

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Exercises

Exercise 01, 18.10.2018

Develop an algorithm for solving the following problem:

Problem 1 *Given a signed permutation π of size n , find the minimum number of operations needed to transform π into the identity **id** using the following admissible operations:*

- *TRP: exchange of two consecutive elements*
- *INV: exchange of two consecutive elements and inversion of their signs*
- *SGN: inversion of the sign of a single element.*

Note that the three operations can be applied in any order and multiplicity.

Discussion of solutions in tutorial on 25.10.2018