Tutorial 4: Optimization problems

Computational complexity theory, 5th semester.

2022

Exercice 1 — PO and NPO

Write the following problems as optimization problems. For each of them, determine if the problem belongs to PO or NPO.

- 1. (CHROMA)
- 2. (SIZE)
- 3. (INS)
- 4. (WINS)
- 5. (MATCHING)
- 6. (VERTEX COVER)
- 7. (SHP)
- 8. (LOP)
- 9. (TSP)
- 10. (MSPT)
- 11. (SET COVER)
- 12. (UST)
- 13. (DST)
- 14. (KNAPSACK)
- 15. (LP)
- 16. (ILP)
- 17. (FLOW)
- 18. (MIN SUDOKU)