Intro To Algorithm Engineering

Topics

- Cache Aware Algorithms
- Cache Oblivious Algorithms
    - Divide and Conquer Methods

Algorithms

- IFUB - Finding Diameter (Eccentricity based)
- Sample Sort
- Merge Based Sort
- Matrix multiplication Blocking Method
- Biconnected Components
    - Tarjan
    - Tarjan-Vishkin
    - Cong and Bader Preprocessing
    - Slota and Madduri Algorithm
    - Chaitanya and Kothapalli
- Ear Decomposition
    - Jen-Schmidt
    - Ramachandran
- All Pair shortest path
    - Matrix Multiplication Approach
- Spanners
    - Baswana and Sen