

Contents

1 Basic

1.1 vimrc

1.2 Fast Integer Input

1.3 Big Integer

2 Flow

2.1 Dinic's algorithm

2.2 Min cost Max flow

2.3 Maximum bipartite matching

2.4 Maximum weighted bipartite matching

3 Math

3.1 FFT

3.2 Miller-Rabin

3.3 Pollard's Rho

3.4 μ function

3.5 Extend GCD

3.6 Matrix

4 Graph

4.1 Strongly connected components

4.2 Heavy-Light Decomposition

4.3 Centroid Decomposition

4.4 Bi-connected component

4.5 2-Satisfiability

5 Data Structures

5.1 Dark Magic

5.2 Treap

5.3 Persistent Disjoint Set

5.4 Leftlist Tree

6 Geometry

6.1 Points

6.2 Segment Intersection

6.3 Line Intersection

6.4 Circle Intersection

6.5 Convex Hull

6.6 Rotating Caliper

6.7 Closest Pair

7 String