Jun 2004

- FFT, DFT
- Upper/Lower bounds for sorting, counting sort - Same as May 2018
- Network Flows, Ford-Fulkerson algorithm, Min/Max-Flow Theorem

April 2005

- Sorting - Quicksort
- Minimum Spanning Tree - Kruskal's Algorithm
- Convex Hull - Graham's scan

April 2006

- Sorting - upper/lower bounds
- Dynamic Programming - Marix Chain Multiplication
- Network Flow - Ford Fulkerson

Aug 2006

- Strassen's Algorithm
- Dynamic Programming - Longest Common Subsequence
- Minimum Spanning Tree - Kruskal's Algorithm, Linked List implementation of Disjoint set

April 2007

- Strassen's Algorithm
- Dynamic Programming - Formatting words on screen
- Minimum Spanning Tree - Prim's Algorithm, Priority Queue Implementation

April 2008

- Fourier Transform - Discrete Fourier Transform / Fast Fourier Transform
- Network Flow - Ford Fulkerson and Edmonts-Karp Heuristic
- Convex Hull - Graham's scan

April 2009

- Sorting - Counting Sort
- Network Flow - Ford Fulkerson
- Fast Exponentiation

Aug 2009:

- Minimum Spanning Tree - Kruskal's Algorithm

- Fourier Transform - Discrete Fourier Transform / Fast Fourier Transform
- Sorting - comparison based sorting

May 2010

- Minimum Spanning Tree - Prim's Algorithm
- Fourier Transform - Discrete Fourier Transform / Fast Fourier Transform
- Dynamic Programming - Matrix Chain Multiplication

Aug 2008

- Strassen's Algorithm
- Sorting - Quicksort
- Dynamic Programming - Knapsack problem

May 2011

- Sorting - Merge Sort
- Minimum Spanning Tree - Prim's Algorithm
- Dynamic Programming - Longest Common Subsequence

Aug 2011

- Sorting - comparison based sorting
- Network Flow - Ford Fulkerson
- Convex Hull - Graham's scan, online convex hull

May 2012

- Fourier Transform - Discrete Fourier Transform / Fast Fourier Transform
- Network Flow - Ford Fulkerson
- Sorting - Quicksort

April 2015

- Fourier Stuff
- Sorting (not counting, radix?)
- Flow Network - Ford-Fulkerson

May/Aug 2016

- Sorting (lowerbound), decision tree
- DP and changepoint problem
- MST and Kruskal

May 2017

- QuickSort, FFT
- MST
- Flow network

Aug 2017

- Fourier Transform
- Convex Hull
- Upper/Lower bounds for sorting & Radix Sort

May 2018

- Sorting (upper, lower bounds), Counting sort,
- Matrix Chain Multiplication problem, optimal parenthesisation
- Minimum spanning tree, disjoint set, Krukskai

Aug 2018

- Matrix Chain Multiplication
- Fourier Transform
- Convex Hull

2019

- MST and Convex Hull