

## Page Practice Problem List - By Lecture Topic

Pages	Problems Pages (Practices)
Data Structures, Custom Sorting	Pair Up USACO Silver March 2017
	Load Balancing USACO Silver Feb 2016
	Polling (old SER)
	Sorting Student Presentations (HS 2008)
Sweeps, Greedy, Cumulative Frequency	Diamond Collector USACO Silver Apr 2016
	Summing to Sevens USACO Silver Jan 2016
Graph I (DFS,BFS,TopSort)	Duel
	Bodies of Water SIUCF 2017 Contest 3 Pages
	Switching on the Lights USACO Silver Dec 2015
Graph II - Floyd, Dijkstra, MST	UG Cables
	Degrees of Separation
	USACO Fine Dining (Dec 2018)
Trees	USACO Directory Traversal (Feb 2018)
	Spreading News
	TreeSales (Mercer 2014)
Binary Search	Cow Dance Show - USACO Jan 17 Silver
	Angry Cows (Gold Jan 16)
DP - LCS, Knapsack, Change	Queen Dido's Challenge Mercer 2014
	Count Sequences - COP 4516 DP 1 Contest
DP - Edit Distance, MCM	Radio Contact USACO Gold Jan 2016
	Taming the Herd USACO Gold Feb 2018
DP on subsets - TSP problem	Visiting Relatives - UCF Practice Problem
	You Win - SER 2013

## **Squire Practice Problem List - By Lecture Topic**

Squires	Problems Squires (Practices)
Binary Index Tree	Balanced Photo USACO Jan 2017 Gold
	Rotating Cards UCF Locals 2017
	At Least Average (FHSPS 2017)
	Bread Sorting (NCPC 2012)
	ZigZag2 (SI@UCF 2015)
Segment Trees	USACO Counting Haybales
	Sneetches
Hashing	USACO Censor (Silver, Gold) - Feb 2015
	The Big Painting (SWERC 2014)
Suffix Array	Patience (COCI 2009-10 Contest 2)
	USACO Standing out from the Herd (Dec 2017)
Fast Matrix Expo	Knights (SER 2014)
	USACO Cow Basic (Mar 2017)
DFS Lowlink, BCC	USACO Push-A-Box (Dec 2017)
	Black Cactus (UCF Locals 2011)
2-SAT, SCC	Illumination
	Kindergarten
Trees	Grass Cownoisseur Jan 2015
	Tourists 2016 NAIPC
	New Barns Feb 2018
	Disruption Mar 2018
DP	USACO Lifeguards (Dec 2016)
	USACO Sort it Out (Dec 2018)
	USACO Redistricting (Jan 2019)
Probability/Expected Value	USACO Cow Dating (Feb 2019)
	Uncertainty of Politics
Geometry	Taxable Area (COP 4516 2016)
	USACO Balance Beam (Dec 2018)
	Pool Table (SER 2009)
	Equal Angles (SER 2010)
	Stained Carpet (SER 2014)