WEEK ONE: STRINGS AND ASSOCIATIVE ARRAYS

[session 1](https://vimeo.com/202855642/68f9bd04f1): Remove Blanks | String: Get Digits

[session 2](https://vimeo.com/203023581/13ae5e39c4): Acronyms | Count Non-Spaces | Remove Shorter Strings

[session 3](https://vimeo.com/203387928/d6feaa81f2): Reverse String | Parens Valid

[session 4](https://vimeo.com/203387745/41291bf29b): Braces Valid | is Palindrome

WEEK TWO: STRINGS AND ASSOCIATIVE ARRAYS

[session 1](https://vimeo.com/203915144/4b93c062d1): Longest Palindrome

[session 2](https://vimeo.com/204094346/14755e1bab): Book Index | Zip Arrays into Map

[session 3-1](https://vimeo.com/204406367/a5c12d43e3): Invert Hash [session 3-2](https://vimeo.com/204406443/d87dfd099f): String.concat | String.slice

[session 4](https://vimeo.com/208743500/205a5ab414): Introduction to Linked Lists | List and Node Constructors

WEEK THREE: SINGLELY LINKED LISTS

[session 1](https://vimeo.com/209312635/d42147410c): Add to Front | Remove from Front

[session 2](https://vimeo.com/209470502/a21f085621): Contains | Front | Length | Display

[session 3](https://vimeo.com/209834480/cedeb52171): Max | Min | Average | Back | Remove Back | Min to Front

[session 4](https://vimeo.com/209834247/45a22939ac): Prepend Val | Append Val | Remove Val

WEEK THREE: STACKS AND QUEUES

[session 1](https://vimeo.com/210342445/d243715f3c): Enqueue | Dequeue

[session 2](https://vimeo.com/210513093/672261f85e): Front | Contains | isEmpty | Size

[session 3](https://vimeo.com/210683112/1aee88a087): Stacks - Pop | Push | Front | Contains | isEmpty | Size

Week 1: Arrays II

Session1: [average, isBalanced, shuffle](https://vimeo.com/207202403/9e71d1c48c) - [Code](https://repl.it/GJoP)

Session2: [balanceIndex](https://vimeo.com/207394752/a75701a316) - [Code](https://repl.it/GLjL)

Session3: [flatten, removeDupes](https://vimeo.com/207736218/352cecbc54) - [Code](https://repl.it/GPKW)

Session4: [mergeSorted, unionSorted](https://vimeo.com/207882832/b595857a79) - [Code](https://repl.it/GQdb)

Week 2: Linked Lists II

Session1: [LinkedList recap, reverse](https://vimeo.com/208571944/f1197f885d) - [Code](https://repl.it/GX7N)

Session2: [kthLast](https://vimeo.com/208753253/7d73d68c02) - [Code](https://repl.it/GZb0)

Session3: [isPalindrome](https://vimeo.com/208912045/b4428239aa) - [Code](https://repl.it/G1Tt)

Session4: [shift, setupLoop, hasLoop](https://vimeo.com/209316776/848ab24778) - [Code](https://repl.it/G5CR)

Week 3: Recursion

Session1: [Intro, displayElements, rSigma](https://vimeo.com/209481386/7d275912ff) - [Code](https://repl.it/G7Nv)

Session2: [binarySearch](https://vimeo.com/209651453/f2c192d9db) - [Code](https://repl.it/G9V1)

Session3: [fibonacci, cachedFibonacci, binaryStringExpansion](https://vimeo.com/210313240/4bab1f60d0) - [Code](https://repl.it/Gb77)

Session4: [stringSubsets](https://vimeo.com/210313644/c589dab2cf) - [Code](https://repl.it/GdVa)

Week 4: Strings II

Session1: stringToWordArray, longestWord - [Code](https://repl.it/GhPc)

Session2: [reverseWords, censor](https://vimeo.com/210709048/6eec665cde) - [Code](https://repl.it/GlZj)

Session3: censor, censor with RegExp - [Code](https://repl.it/GncI)

WEEK ONE: BST

[session 1](https://vimeo.com/207724402/f7322529f7): Intro, add function

[session 2](https://vimeo.com/207723996/eed99b38de): min, max, find, isEmpty

[session 3](https://vimeo.com/203205586/e8d0a58b50): height, isBalanced, ArrayToBST

[session 4](https://vimeo.com/203382906/72cb92a434): BinarySearch an Array, ArrayToBST

WEEK TWO: HASHES

[session 1](https://vimeo.com/208591249/d39e674ad2): Intro, hash function (custom), HashTable class w/ add

[session 2](https://vimeo.com/208742161/d0cef77040): remove, isEmpty & loadFactor

[session 3](https://vimeo.com/209289560/7a3f9b384f): resizing, selectKeys

WEEK THREE:

[session 1](https://vimeo.com/209467467/b00476dc13): Sets Day 1 - interleave and merge sorted arrays

[session 2](https://vimeo.com/209650562/87840fba8c): Sets Day 2 - intersect sorted arrays w/ dedupe, union sorted arrays w/ dedupe

--previous month below–

[session 1](https://vimeo.com/204992240/732ef0a923): Priority Queues class build w/ push and sequenceMessage and playMessages!

[session 2](https://vimeo.com/205148357/9e5429f288): Heaps

[session 3](https://vimeo.com/205301651/71bcccc634): more Heaps

[session 4](https://vimeo.com/205611209/beccf907d3): Heapsort

WEEK FOUR:

[session 1](https://vimeo.com/210360859/96d7b851f2): Priority Queues w/ push

[session 2](https://vimeo.com/210543759/c4987c0c41): Sorting - Bubble & Selection

[session 3](https://vimeo.com/210681976/18a7393d9e): Sorting - Insertion & Partition [we are here 3/29/17]

--previous month below–

[session 1](https://vimeo.com/205971050/e06f9a7608): isPrime

[session 2](https://vimeo.com/206318906/036778acef): countPrimes

session 3: Chess-Happy Algorithms

BST PART 2

session 1: full, perfect: <https://vimeo.com/207201795/d2acea0326>

session 2: complete: <https://vimeo.com/207384867/c93f932988>

session 3: binary tree find path: <https://vimeo.com/207722673/0ebbf68945>

GRAPHS

session 1: <https://vimeo.com/208580281/d78ba13639>

GRAPH / MST / TRIE / BITWISE OPERATORS

<https://vimeo.com/209655503/6a0d52c357>

SELF BALANCING TREES

session 1: adelson velsky-landis:

<https://vimeo.com/210682967/5b0ec3e257>

Last Month's Recordings

WEEK ONE: BST PART 2

[session 1](https://vimeo.com/202844968/68517b9833): recap on hash tables, BST size, height, remove

[session 2](https://vimeo.com/203027862/2c0cd177da): BST height, full, complete, perfect

WEEK TWO: PRIORITY QUEUES

[session 1](https://vimeo.com/203919570/10d865486c): BST isValid, repair, mirror

[session 2](https://vimeo.com/204278976/384fcb79ea): Abstract data type Priority Queue, possible implementations, Heap intro

[session 3](https://vimeo.com/204270286/a87c2cb68f): Heaps repairUp, repairDown

[session 4](https://vimeo.com/204420514/ceb1b9483e): Heapify, HeapSort

WEEK THREE: GRAPHS

[session 1](https://vimeo.com/204939152/2ec9457ec7): isConnected(A, B), findShortestPath(A, B)

[session 2](https://codingdojo.zoom.us/j/923525370): ^^ continued

[session 3](https://vimeo.com/205301577/c5da74608f): findSmallestWeightedPath(A, B)

[session 4 part 1](https://vimeo.com/205611455/73ff740d48): Minimal Spanning Tree

[session 4 part 2](https://vimeo.com/205611392/7320941ebd)

WEEK FOUR: TRIES

[session 1](https://vimeo.com/205949545/26ec0f589e): Basic and weighted Tries

[session 2](https://vimeo.com/206155551/a812e9415e): findMin, findNext, objects vs arrays

[session 4](https://vimeo.com/206480252/80117c91b4): oneApart, part one

[part two](https://vimeo.com/206480350/19aa0f4b73)