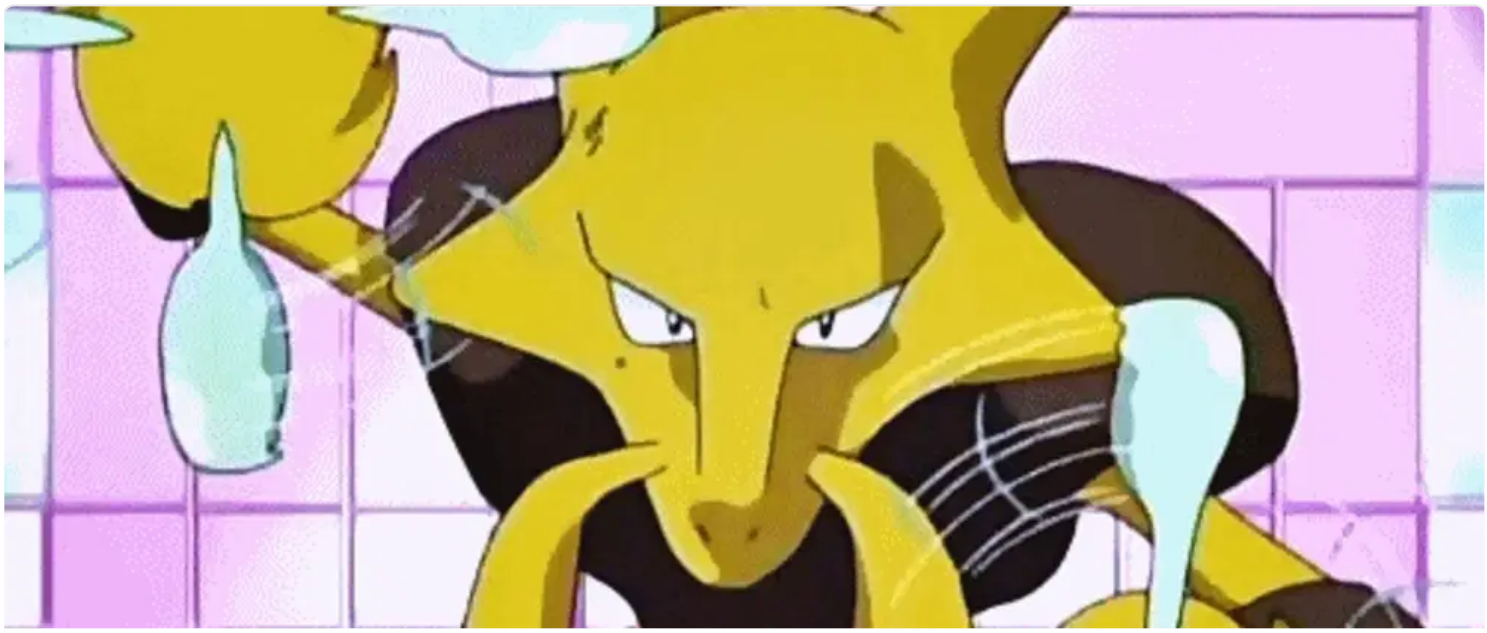

51 Important algorithms coding interview questions asked at FAANG

#algorithms #datastructures #python #codinginterviews

BitPunchZ Nov 20, 2020 · *Updated on Jan 2* · 3 min read

Hi guys, happy Friday, and congratulations for surviving 2020 so far, a major achievement 🏵

and to celebrate your achievement, here is a list of 51 important coding interview questions that you can find on leetcode, these are questions from top FAANG companies (Facebook, Amazon, Apple, Netflix, and Google)

I also have a course that covers all these problems that is currently on new year sale for $9.99, check it out if you want: Leetcode in python 50 Algorithms Coding Interview Questions

Arrays and Strings

1- Move zeroes (easy): https://leetcode.com/problems/move-zeroes/

2- Boats to save people(medium): https://leetcode.com/problems/boats-to-save-people

most-water

5- Longest substring without repeaing characters(medium): https://leetcode.com/problems/longest-substring-without-repeating-characters
6- Find first and last position of element in sorted array(medium): https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array
7- First Bad Version(easy): https://leetcode.com/problems/first-bad-version

Maths

1- Missing number(easy): https://leetcode.com/problems/missing-number
2- Count Primes(easy): https://leetcode.com/problems/count-primes
3- Single Number(easy): https://leetcode.com/problems/single-number
4- Robot Return To Origin(easy): https://leetcode.com/problems/robot-return-to-origin
5- Add Binary(easy): https://leetcode.com/problems/add-binary

Hash Tables (Maps)

1- Two Sum(easy):https://leetcode.com/problems/two-sum
2- Contains Duplicate(easy): https://leetcode.com/problems/contains-duplicate
3- Majority Element(easy): https://leetcode.com/problems/majority-element
4- Group Anagrams(medium): https://leetcode.com/problems/group-anagrams
5- 4 sum 2(medium): https://leetcode.com/problems/4sum-ii
6- LRU Cache(medium): https://leetcode.com/problems/lru-cache
7- Minimum Window Substring(hard): https://leetcode.com/problems/minimum-window-substring

Linked List

1- Merge 2 sorted lists(easy): https://leetcode.com/problems/merge-two-sorted-lists
2- LinkedList Cycle(easy): https://leetcode.com/problems/linked-list-cycle
3- Reverse linkedlist(easy): https://leetcode.com/problems/reverse-linked-list
4- Add two numbers(medium): https://leetcode.com/problems/add-two-numbers
5- Remove nth node from end of list(medium): https://leetcode.com/problems/remove-nth-node-from-end-of-list
6- Odd even linkedlist(medium): https://leetcode.com/problems/odd-even-linked-list

Backtracking

1- Subsets(medium): https://leetcode.com/problems/subsets
2- Letter combination of a phone number(medium): https://leetcode.com/problems/letter-combinations-of-a-phone-number
3- Word search(medium): https://leetcode.com/problems/word-search
4- Combination sum(medium): https://leetcode.com/problems/combination-sum
5- Palindrome partitioning(medium): https://leetcode.com/problems/palindrome-partitioning

Trees and Graphs

1- Network delay time(medium): https://leetcode.com/problems/network-delay-time
2- Symmetric tree(easy): https://leetcode.com/problems/symmetric-tree
3- Maximum depth of a binary tree(easy): https://leetcode.com/problems/maximum-depth-of-binary-tree
4- Path sum(easy): https://leetcode.com/problems/path-sum
5- Lowest common ancestor of a binary tree(medium): https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree
6- Kth smallest element in a BST(medium): https://leetcode.com/problems/kth-smallest-element-in-a-bst
7- Serialize and deserialize binary tree(hard): https://leetcode.com/problems/serialize-and-deserialize-binary-tree
8- Binary tree maximum path sum(hard): https://leetcode.com/problems/binary-tree-maximum-path-sum

Stacks and Queues

1- Min Stack(easy): https://leetcode.com/problems/min-stack
2- Valid Parenthesis(easy): https://leetcode.com/problems/valid-parentheses
3- Binary tree level order traversal(easy): https://leetcode.com/problems/binary-tree-level-order-traversal
4- Binary tree zigzag level order traversal(medium): https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal
5- Binary tree Postorder traversal(medium): https://leetcode.com/problems/binary-tree-

Dynamic programming

1- House Robber(easy): https://leetcode.com/problems/house-robber
2- Best time to buy and sell stocks(easy): https://leetcode.com/problems/best-time-to-buy-and-sell-stock
3- Climbing stairs(easy): https://leetcode.com/problems/climbing-stairs
4- Coin change(medium): https://leetcode.com/problems/coin-change
5- Unique paths(medium): https://leetcode.com/problems/unique-paths
6- Longest palindromic substring(medium): https://leetcode.com/problems/longest-palindromic-substring
7- Trapping rain water(hard): https://leetcode.com/problems/trapping-rain-water

Bonus: Algorithms, Data structures, and techniques you should learn

Data Structures

- Stacks
- Queues
- Linked lists
- Trees
- Hash maps
- Graphs

Algorithms and techniques

- Binary Search
- Two Pointers
- Sliding window
- DFS
- BFS
- Dijkstra

Good luck with your future interviews, may the odds be forever in your favor :)

Discussion

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Add to the discussion

Anuj Tyagi • Dec 29 '20

Hi, Your course price is too high currently. Is it possible to get a coupon code? Your black Friday code is no longer valid. How about a new year code? I will spread your course on social media profile after reviewing myself.
Thanks! :)

BitPunchZ • Jan 2

Hi Anuj, here's the new years coupon: udemy.com/course/leetcode-in-pytho...

Happy new year :)

1

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BitPunchZ

Software Engineer

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Jan 23, 2019

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Trees Data Structure video explanation

#datastructures #algorithms #computerscience #trees