AMAZON SDE REVISION SHEET

( by RIDDHI DUTTA )

Tags to use for prizes : #riddhiduttaamazonsdesheet, #riddhiduttasdesheet.

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***Connect with me on*** [Linkedin](https://www.linkedin.com/in/riddhi-dutta/).

Subscribe to my [Youtube Channel](https://www.youtube.com/user/rite2riddhi?sub_confirmation=1)

***For more such technical content.***

### Day 1

1. [**https://leetcode.com/problems/third-maximum-number/**](https://leetcode.com/problems/third-maximum-number/)
2. [**https://leetcode.com/problems/product-of-array-except-self/**](https://leetcode.com/problems/product-of-array-except-self/)
3. [**https://www.geeksforgeeks.org/find-duplicates-in-on-time-and-constant-extra-space/**](https://www.geeksforgeeks.org/find-duplicates-in-on-time-and-constant-extra-space/)
4. [**https://leetcode.com/problems/longest-substring-without-repeating-characters/**](https://leetcode.com/problems/longest-substring-without-repeating-characters/)

### Day 2

1. [**https://leetcode.com/problems/two-sum/**](https://leetcode.com/problems/two-sum/)
2. [**https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/**](https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/)
3. [**https://leetcode.com/problems/container-with-most-water/**](https://leetcode.com/problems/container-with-most-water/) **(VVI)**
4. [**https://leetcode.com/problems/trapping-rain-water/**](https://leetcode.com/problems/trapping-rain-water/) **(Two Pointer Solution)**

### Day 3

1. [**https://leetcode.com/problems/3sum/**](https://leetcode.com/problems/3sum/)
2. [**https://leetcode.com/problems/get-the-maximum-score/**](https://leetcode.com/problems/get-the-maximum-score/)
3. [**https://leetcode.com/problems/missing-number/**](https://leetcode.com/problems/missing-number/) **(VVI)**

### Day 4

1. [**https://leetcode.com/problems/first-missing-positive/**](https://leetcode.com/problems/first-missing-positive/) **(VVVI)**
2. [**https://leetcode.com/problems/maximum-product-subarray/**](https://leetcode.com/problems/maximum-product-subarray/)
3. [**https://leetcode.com/problems/generate-parentheses/**](https://leetcode.com/problems/generate-parentheses/)

### Day 5

1. [**https://leetcode.com/problems/merge-two-sorted-lists/**](https://leetcode.com/problems/merge-two-sorted-lists/)
2. [**https://leetcode.com/problems/reverse-nodes-in-k-group/**](https://leetcode.com/problems/reverse-nodes-in-k-group/) **(VVVI)**
3. [**https://leetcode.com/problems/copy-list-with-random-pointer/**](https://leetcode.com/problems/copy-list-with-random-pointer/) **(VVVI)**
4. [**https://leetcode.com/problems/merge-k-sorted-lists/**](https://leetcode.com/problems/merge-k-sorted-lists/) **(VVVI)**
5. [**https://leetcode.com/problems/reorder-list/**](https://leetcode.com/problems/reorder-list/)

### Day 6

1. [**https://leetcode.com/problems/subarray-sum-equals-k/**](https://leetcode.com/problems/subarray-sum-equals-k/)
2. [**https://leetcode.com/problems/maximum-sum-circular-subarray/**](https://leetcode.com/problems/maximum-sum-circular-subarray/)
3. [**https://leetcode.com/problems/majority-element/**](https://leetcode.com/problems/majority-element/) **(VVI)**
4. [**https://leetcode.com/problems/majority-element-ii/**](https://leetcode.com/problems/majority-element-ii/)

### Day 7

1. [**https://leetcode.com/problems/find-peak-element/**](https://leetcode.com/problems/find-peak-element/) **(VVI)**
2. [**https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/**](https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/) **(VVI)**
3. [**https://leetcode.com/problems/search-in-rotated-sorted-array/**](https://leetcode.com/problems/search-in-rotated-sorted-array/) **(VVI)**

### Day 8

1. [**https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/**](https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/) **(VVI)**
2. [**https://www.geeksforgeeks.org/counting-inversions/**](https://www.geeksforgeeks.org/counting-inversions/) **(VVI)**
3. [**https://leetcode.com/problems/first-unique-character-in-a-string/**](https://leetcode.com/problems/first-unique-character-in-a-string/)
4. [**https://www.geeksforgeeks.org/largest-subarray-with-equal-number-of-0s-and-1s/**](https://www.geeksforgeeks.org/largest-subarray-with-equal-number-of-0s-and-1s/)

### Day 9

1. [**Graph Problems - 1**](https://www.youtube.com/watch?v=etgbipiiL5Q&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=2) **(Go through the problems discussed here)**
2. [**Graph Problems - 2**](https://www.youtube.com/watch?v=xaRY04hzbPQ&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=4) **(Go through all the problems here VVVVVVI)**

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### Day 10

1. [**Graph Problems - 3**](https://www.youtube.com/watch?v=4DiOHNuO8To&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=7) **(Go through all the problems here VVVVVVI)**

### Day 11

1. [**Graph Problems - 4**](https://www.youtube.com/watch?v=vadly9uWMPU&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=10) **(VVVI)**

### Day 12

1. [**Number of Operations to make network connected**](https://www.youtube.com/watch?v=fi-_r0MtL5I&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=14)
2. [**Making a Large Island**](https://www.youtube.com/watch?v=fi-_r0MtL5I&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=14) **(VVVVI)**
3. [**Number of Islands - 2**](https://www.youtube.com/watch?v=DweCWqynADM&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV&index=15) **(VVVI)**

### Day 13

1. [**https://leetcode.com/problems/k-closest-points-to-origin/**](https://leetcode.com/problems/k-closest-points-to-origin/) **(See the Quick Sort one.)**
2. [**https://leetcode.com/problems/kth-largest-element-in-an-array/**](https://leetcode.com/problems/kth-largest-element-in-an-array/)
3. [**https://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/**](https://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/)
4. [**https://leetcode.com/problems/search-a-2d-matrix-ii/**](https://leetcode.com/problems/search-a-2d-matrix-ii/) **(VVI)**

### Day 14

1. [**https://leetcode.com/problems/validate-ip-address/**](https://leetcode.com/problems/validate-ip-address/)
2. [**https://leetcode.com/problems/implement-strstr/**](https://leetcode.com/problems/implement-strstr/)
3. [**https://leetcode.com/problems/integer-to-english-words/**](https://leetcode.com/problems/integer-to-english-words/)

### Day 15

1. [**https://leetcode.com/problems/delete-the-middle-node-of-a-linked-list/**](https://leetcode.com/problems/delete-the-middle-node-of-a-linked-list/)
2. [**https://www.geeksforgeeks.org/detect-loop-in-a-linked-list/**](https://www.geeksforgeeks.org/detect-loop-in-a-linked-list/)
3. [**https://www.interviewbit.com/blog/remove-loop-in-linked-list/**](https://www.interviewbit.com/blog/remove-loop-in-linked-list/)
4. [**https://leetcode.com/problems/intersection-of-two-linked-lists/**](https://leetcode.com/problems/intersection-of-two-linked-lists/) **(VVI)**

### Day 16

1. <https://www.interviewbit.com/problems/swap-list-nodes-in-pairs/>
2. [**https://leetcode.com/problems/palindrome-linked-list/**](https://leetcode.com/problems/palindrome-linked-list/) **(VVI)**
3. [**https://www.geeksforgeeks.org/implement-stack-using-queue/**](https://www.geeksforgeeks.org/implement-stack-using-queue/)
4. [**https://leetcode.com/problems/merge-intervals/**](https://leetcode.com/problems/merge-intervals/) **(VVI)**

### Day 17

1. [**https://leetcode.com/problems/min-stack/**](https://leetcode.com/problems/min-stack/) **(VVI)**
2. [**https://leetcode.com/problems/maximal-rectangle/**](https://leetcode.com/problems/maximal-rectangle/)
3. [**https://leetcode.com/problems/insert-delete-getrandom-o1/**](https://leetcode.com/problems/insert-delete-getrandom-o1/) **(VVI)**

### Day 18 (Tries - Day , Important Day)

1. [**https://leetcode.com/problems/word-search/**](https://leetcode.com/problems/word-search/) **(VVI)**
2. [**https://leetcode.com/problems/design-search-autocomplete-system/**](https://leetcode.com/problems/design-search-autocomplete-system/) **(VVI)**
3. [**https://leetcode.com/problems/top-k-frequent-words/**](https://leetcode.com/problems/top-k-frequent-words/) **(VVI)**

### Day 19

1. [**https://leetcode.com/problems/letter-combinations-of-a-phone-number/**](https://leetcode.com/problems/letter-combinations-of-a-phone-number/)
2. [**https://leetcode.com/problems/meeting-rooms-ii/**](https://leetcode.com/problems/meeting-rooms-ii/)
3. [**https://leetcode.com/problems/sliding-window-maximum/**](https://leetcode.com/problems/sliding-window-maximum/) **(VVI)**

### Day 20

1. [**https://leetcode.com/problems/best-time-to-buy-and-sell-stock/**](https://leetcode.com/problems/best-time-to-buy-and-sell-stock/)
2. [**https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/**](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/)
3. [**https://leetcode.com/problems/longest-palindromic-substring/**](https://leetcode.com/problems/longest-palindromic-substring/) **(VVI)**
4. [**https://www.geeksforgeeks.org/minimum-number-of-jumps-to-reach-end-of-a-given-array/**](https://www.geeksforgeeks.org/minimum-number-of-jumps-to-reach-end-of-a-given-array/) **(VVI)**

### Day 21

1. [**https://leetcode.com/problems/lru-cache/**](https://leetcode.com/problems/lru-cache/) **(VVI)**
2. [**https://leetcode.com/problems/time-based-key-value-store/**](https://leetcode.com/problems/time-based-key-value-store/) **(VVI)**
3. [**https://leetcode.com/problems/next-greater-element-ii/**](https://leetcode.com/problems/next-greater-element-ii/)

### Day 22

1. [**https://leetcode.com/problems/find-median-from-data-stream/**](https://leetcode.com/problems/find-median-from-data-stream/) **(VVI)**
2. [**https://www.youtube.com/watch?v=ytLvO2N968Y&list=PL4WwUkr0wZURF9cR2UreFQDmIDON2zwQR&index=5**](https://www.youtube.com/watch?v=ytLvO2N968Y&list=PL4WwUkr0wZURF9cR2UreFQDmIDON2zwQR&index=5) **(VVI)**
3. [**https://www.youtube.com/watch?v=v5Q8zrcCHSw**](https://www.youtube.com/watch?v=v5Q8zrcCHSw) **(IMP)**

### Day 23

1. [**https://leetcode.com/problems/validate-binary-search-tree/**](https://leetcode.com/problems/validate-binary-search-tree/)
2. [**https://leetcode.com/problems/diameter-of-binary-tree/**](https://leetcode.com/problems/diameter-of-binary-tree/)
3. [**https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/**](https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/) **(VVI)**
4. [**https://leetcode.com/problems/binary-tree-maximum-path-sum/**](https://leetcode.com/problems/binary-tree-maximum-path-sum/) **(VVI)**

### Day 24

1. [**https://leetcode.com/problems/set-matrix-zeroes/**](https://leetcode.com/problems/set-matrix-zeroes/) **(VVI)**
2. [**https://leetcode.com/problems/next-permutation/**](https://leetcode.com/problems/next-permutation/)
3. [**https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/**](https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/)

### Day 25

1. [**https://leetcode.com/problems/largest-rectangle-in-histogram/**](https://leetcode.com/problems/largest-rectangle-in-histogram/)
2. [**https://leetcode.com/problems/combination-sum/**](https://leetcode.com/problems/combination-sum/)
3. [**https://www.interviewbit.com/problems/distinct-numbers-in-window/**](https://www.interviewbit.com/problems/distinct-numbers-in-window/)

### Day 26

1. [**https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/**](https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/)
2. [**https://www.geeksforgeeks.org/print-bst-keys-in-the-given-range/**](https://www.geeksforgeeks.org/print-bst-keys-in-the-given-range/)
3. [**https://leetcode.com/problems/kth-smallest-element-in-a-bst/**](https://leetcode.com/problems/kth-smallest-element-in-a-bst/) **(VVI)**
4. [**https://leetcode.com/problems/two-sum-iv-input-is-a-bst/**](https://leetcode.com/problems/two-sum-iv-input-is-a-bst/) **(VVI)**
5. [**https://www.geeksforgeeks.org/fix-two-swapped-nodes-of-bst/**](https://www.geeksforgeeks.org/fix-two-swapped-nodes-of-bst/)
6. [**https://leetcode.com/problems/flatten-binary-tree-to-linked-list/**](https://leetcode.com/problems/flatten-binary-tree-to-linked-list/)

Day 27

1. [**https://leetcode.com/problems/serialize-and-deserialize-bst/**](https://leetcode.com/problems/serialize-and-deserialize-bst/)
2. [**https://www.geeksforgeeks.org/burn-the-binary-tree-starting-from-the-target-node/**](https://www.geeksforgeeks.org/burn-the-binary-tree-starting-from-the-target-node/) **(VVVI)**
3. [**https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/**](https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/) **(VVVI)**

### Day 28

1. [**https://leetcode.com/problems/course-schedule/**](https://leetcode.com/problems/course-schedule/) **(VVVVVVVVVI)**
2. [**https://leetcode.com/problems/course-schedule-ii/**](https://leetcode.com/problems/course-schedule-ii/) **(VVVVVVI)**
3. [**https://leetcode.com/problems/clone-graph/**](https://leetcode.com/problems/clone-graph/)
4. [**https://leetcode.com/problems/verifying-an-alien-dictionary/**](https://leetcode.com/problems/verifying-an-alien-dictionary/)

### Day 29

1. <https://leetcode.com/problems/vertical-order-traversal-of-a-binary-tree/> (VVI)
2. <https://www.geeksforgeeks.org/print-left-view-binary-tree/>
3. <https://practice.geeksforgeeks.org/problems/right-view-of-binary-tree/1>
4. <https://practice.geeksforgeeks.org/problems/top-view-of-binary-tree/1>
5. <https://www.geeksforgeeks.org/bottom-view-binary-tree/>
6. <https://leetcode.com/problems/populating-next-right-pointers-in-each-node/>

### Day 30

1. [**https://leetcode.com/problems/gas-station/**](https://leetcode.com/problems/gas-station/)
2. [**https://leetcode.com/problems/median-of-two-sorted-arrays/**](https://leetcode.com/problems/median-of-two-sorted-arrays/) **(Little tricky question , take some time to understand. Might not get asked , but it's important to know.)**
3. [Longest Consecutive Sequence](https://leetcode.com/problems/longest-consecutive-sequence/)

### Bonus Resources

1. [My Topic Wise SDE Sheets](https://www.youtube.com/watch?v=SD9CbkCCLb4&list=PL4WwUkr0wZURmFqLT7QfkwkY3mE8IbtfJ)
2. [Graphs Series from scratch , with all Important Topics Explained with Problems](https://www.youtube.com/watch?v=a6wUePS1hQI&list=PL4WwUkr0wZUTcTyJbjTQyrMhzcJqlNTDV)
3. [Low Level Design and Design Patterns Playlist](https://www.youtube.com/watch?v=PSYp5svfxEQ&list=PL4WwUkr0wZUQHOVBzZnvA0tEk9sPqBrHm)