•
February 5, 2015

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deepwaterooo

1

3

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3

3

5

5

Algorithms Review for Job Interview

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1	2/5/2015, Thursday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• spent 1.5 hours rearrange the room so that avoid shower & washer dryer for bed and study desk, now defacing Window… should be so much better now…	sk
	• went outside and came back in the afternoon	
	• appreciate a lot for LeetCode having been helpping me getting farmilar with these algorithms, I can recite the answers, but maybe one more round of algorithms so that I do UNDERSTAND instead of memorizing the by mistake···target for finishing in one week···	
	• work during day time, but will combe back for algorithms in the evening,	
	• LeetCode Summary .org file is too large killing my computer, maybe go back to it after one week \cdots	
	• began to prepare for the projects, algorithms deeper understand and summarizing, after this week, no mo problems, project-oriented alter on	re
2	2/4/2015, Wednesday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 1:30-10:30, it happens, don't know why…	
	• read initial chapters of EPI····.	
3	2/3/2015, Tuesday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	\bullet Last night schedule was assigned extra heavy one, got really tired \cdots	
	• took shower, washed my feet using hot boiled water helping relax the body, watched sth for that half an hot and fall asleep 12:00-8:30am, which was really getting my schedule back and nice…	ır,
	ullet work as mush as I can before work at 3 today, and try to fall asleep around 12 tonight too…	
	• need some more material for threads \cdots	
	• will try to read some book in the morning, maybe try EPI tomorrow before work.	

12

 $37\ 12/31/2014$, Wednesday

- 5:00-11:30am; will work in the afternoon like yesterday, schedule not fixed yet, guess the arrangement right now just for tmp only…
 work as mush as I can before work…
 2/1/2015, Sunday
 Reverse Nodes in k-Group recursion bug!~~~
 5:00.12:30am; worked day time; coming days breaks into parts too;
 - 5:00-12:30am; worked day time; coming days breaks into parts too…
 worked on trees, , will try to finish trees tonight…
 - Reverse Nodes in k-Group recursion bug !~ ~ ~ ~

• Reverse Nodes in k-Group recursion bug ! $\sim \sim \sim \sim$

- 3:00-10:30am; drmi dizi most painful body ever, drinking glasses & glasses water all day…
- wanted to work on threads, but got speedbar work instead;
- worked on trees, , will try to finish trees tonight…

moving, got physically tired recently, have good rest & get schedule back.

- way too tired, watch <sth> for rest…
- 1/30/2015, Friday

1/31/2015, Saturday

6

 $4 \ 2/2/2015$, Monday

- Reverse Nodes in k-Group recursion bug !~ ~ ~ ~
- 1:30-7:30am; started to do labor work recently, had been sitting in chairs for weeks about one month without
- work on trees, threads and project tomorrow.
- 1/29/2015, Thursday

 6:00-8:00am; 12:00-1:40 fall asleep; work in food court 2:00-9:30, 0.5 hr dinner;
- Scheduled appointment with lawyer to be 2/5/2014 2:00pm;
- Next court day will be 2/13/2015, Friday 9:00am;
- finish leetcode java code review as soon as possible;
- finish leetcode java code review as soon as possible;
 Try to work on web scheduling system as soon as possible;
- need to work hard on algorithms and projects...
 start to work on java thread a little bit, terminal is ok, Emacs unreasonably throws java.lang.IllegalThreadState
- and I don't understand why emacs behaves Difficulty yet…
- work tomorrow day time, but will work on algorithms in the evening.
- 1/28/2015, Wednesday
- decode ways java version, bug ···..
- 4:30~09:45, have no reason won't be headache today, but to get my schedule back, worth a headach
- accompany the landlord for cleaning the house for half an hour 2:30 3:00
 too tired to continue work on it, have rest earlier...

111/26/2015, Monday • Unique path, bug ….. • 8:00-12:00, know I have too much copy-paste labor work to do today, so less rest doesn't matter when don't need a mind… • have rest after dinner, evening depends, either: - Summarize dp, greedy and Backtracking first; - Or try to finish the question contents copy-paste for today then, 175 questions; • call food court tomorrow, check first day of work···nothing wrong with promoting oneself···. 1/25/2015, Sunday 12worked on 3 problems, 175/175: finally Java once $\sim !!$ connect next Right • Wildcard Matching regular expression matching 12.2Other things • $(4:30\sim5:00) \sim 12:30$, much better than yesterday~ think about what I should do next • Target: make a book of LeetCode just like them made it, which is pretty good~ Schedule appointment with layer • Try to summarize LeetCode questions, want to make a book of my own, just like the one I made for ctci...

 regular expression matching Wildcard Matching

worked on 1 problems, 174/175: 3 left

1/24/2015, Saturday

1/27/2015, Tuesday

• decode ways java version, bug

10

13

13.2

Sudoku Solver

Other things

• ~7:00-13:30,

- connect next Right
- $(4:30\sim5:00) \sim 2:30$, woke up from 10:00 to 2:00 from time to time,
- 5:00-7:30 read 85-117; 117/166, want to finish this, a way to think...

but don't understand why so tired recently...

• go grocery buy food, have dinner, then conitrue the several questions • fall asleep after dinner after couple of page reading, 22:00 - 0:15, no wonder felt so XXXX during the afternoon,

http://bbs.tianya.cn/post-culture-849459-117.shtml#ty_vip_look[V%E5%93%A5%E6%8E%B0%E8%B0%88

1/23/2015, Friday worked on 6 problems, 173/175: 4 left find substring idxes • sort Colors distinct Sequence • Interleaving Sequence • Scramble String • Candy 14.2Other things

· Sudoku Solver

- regular expression matching
- Wildcard Matching
- connect next Right
 - (4:00~4:30) ~ 11:30 • I think I got sick today, fever, 3-3:30 & 6:30-7:30 rest almost fall a sleep

1/22/2015, Thursday 15

- worked on 6 problems, 167/175:
- 50, 69, 4,, 119, 65, 174
- sqrt(x)
- pow(x) • Median of Two Sorted Arrays
- Pascal's Triangle II • valid number, god…
- Dungeon Game

Other things

- $(5:30\sim6:00) \sim 12:00$, headache!!!

• have rest after dinner, do as much as I can for today~!!

- 1/21/2015, Wednesday 16
- worked on 8 problems, 161/175:
 - 114, 31, 41, 32, 9, 7, 26, 80
 - Flatten binary tree to Preorder all Right nodes
 - Next Permutation
 - First Missing Positive
 - Longest Valid Parentheses

• Remove Duplicates from Sorted Array • Remove Duplicates from Sorted Array II 16.2Other things • 8:00 - 2:38pm • C-cC-vC-c C-cC-vC-r C-xC-c terminate without prompt, but still seeking a way to kill subprocesses without kill emacs; It maybe Difficult, but so far tolerate it, only one tree/list problem left anyway~ • 10 hard ones left untouched ~!! 1/20/2015, Tuesday 1717.1worked on 6 problems, 153/173: • 28, 140,, 126, 132, 5, 105, 106 • strStr word break II word ladder II

(2:30~2:45) ~ 11:55
still, somebody else's mind in my body today, so not me~

• Palindrom Partitioning II

Preorder Inorder build tree
Inorder Postorder build tree

Other things

• longest Palindrom

17.2

Palindrome Number

• Reverse Integer

- 3:00-5:00, go campus, try to meet advisor, stubbern evening...
- will work coming week when docs processed ready, so try finish this round as soon as possible

10 1/10/2017 7/

- 18 1/19/2015, Monday
 - .1 worked on 8 problems, 147/173: • 84, 42, 85, 11, 131, 179, 127,, 28
 - Largest Rectangle in Histogram
 - Transing Pain Water
 - Trapping Rain Water
 - Maximal Rectangle
 - Container With Most Water
 - Palindrome Partitioning
 - Largest Number

Word Ladder

• (3:30~4:00) ~ 11:05 1/18/2015, Sunday 19 worked on 10 problems, 139/173: 19.1• 78, 90, 77, 46, 47, 133, 152, 89, 72, 55, 45 • Subsets • Subsets II Combinations Permutations • Permutations II • Clone Graph • Maximum Product Subarray Gray Code Edit Distance • Jump Game • Jump Game II 19.2Other things • 5:00 - 10:44, mind is NOT in the brain today, do only easy ones, no touching greedy nor array... • eat earlier, eat more to make it easier to fall asleep after dinner, evening depends... • should be able to fall asleep before 5am tonight then; 1/17/2015, Saturday 2020.1worked on 12 problems, 129/173: • 120, 128, 96, 95, 70, 53, 91, 66, 8, 60, 39, 40 • Triangle • Longest Consecutive Sequence • Unique Binary Search Trees • Unique Binary Search Trees II Climbing Stairs Maximum Subarray • Decode Ways • Plus One • String to Integer (atoi) • Permutation Sequence

18.2

Other things

Combination Sum II

- 4:00 8:58, woke up for 2 min, fall back asleep in 2 mins after surfing internet for 2 mins; • wake up 11:48, better mind today, tried couple of dp, but how could I efficiently fall asleep before 4 tonight? 1 cup coffee at ard 4pm alrdy after 20 mins nap

• Need try greedy method some other time when mind is clear, all painful & bad memories about TLE… • Can't believe I am so sleepy, headache around eleven··· try fall asleep around two··· long way to go···

1/16/2015, Friday 21

got especially headache this week, go grocery to get my water, have rest earlier & expecting tomorrow to work

- 49, 81, 51, 52, 22, (39), 82, 108, 109, 149 Anagrams
 - search in rotated sorted array with dup II: wrote mid = end 1 in the morning ~;
 - N-Queens
 - Generate Parentheses
 - Combination Sum: don't know how to make it run faster
 - Remove Duplicates from Sorted List II
- Convert Sorted Array to Binary Search Tree

worked on 9 problems, 117/173:

- Convert Sorted List to Binary Search Tree
- Max Points on a Line, **Double** map key, (double)/(double) == (double)(int/int)???
- 21.2Other things • Wanted to swipe bottom up from 17?, but apparantly I am **NOT proficient enough** to solve the Difficult

Simplify Path

N-Queens II

20.2

Other things

- ones yet, so take my time to solve them gradually~ • do NOT work in it any more tonight,
 - in DP ∼!
- 1/15/2015, Thursday
- 22.1worked on 10 problems, 108/173:
- Search in Rotated Sorted Array
- Restore IP Addresses
- Populating Next Right Pointers in Each Node

 - Populating Next Right Pointers in Each Node II: You may only use constant extra space
 - Minimum Window Substring, repeats,

 - Sum Root to Leaf Numbers
 - Binary Tree Inorder Traversal
 - Binary Tree Preorder Traversal
 - Binary Tree Postorder Traversal
 - Merge K sorted List.

• Validate binary search tree
• Recover binary search tree
• same tree
• Symmetric tree
24.2 Other things • got very headache and 3:30-6:00pm food court training
$25 ext{ } 1/12/2015, ext{Monday}$
25 1/12/2015, Monday 25.1 worked on 6 problems, 86/173:
25.1 worked on 6 problems, 86/173:
25.1 worked on 6 problems, 86/173: • 73, 74, 79, 83, 86, 92
 25.1 worked on 6 problems, 86/173: • 73, 74, 79, 83, 86, 92 • Set Matrix Zeroes
 25.1 worked on 6 problems, 86/173: • 73, 74, 79, 83, 86, 92 • Set Matrix Zeroes • Search a 2D matrix

• wrote quite a few nippets for java-mode, works quite great~!

1/14/2015, Wednesday

• binary tree Level order Traversal

Maximum Depth of binary treeMinimum Depth of binary tree

• Balanced binary tree

Other things

• 98, 99, 100, 101

• Reverse Linked List II

Other things

25.2

path sumpath sum II

23.2

24

• binary tree Level order Traversal II

• binary tree Level Zigzag order Traversal

• a matter get it done as soon as possible, 7-12,

worked on 4 problems, 90/173:

1/13/2015, Tuesday

• didn't do anything in the evening, better not behave this way any more~!

.1 worked on 8 problems, 98/173:
tree series: 102, 103, 104, 107, 110, 111, 112, 113

• rotate list
• Unique paths
• Unique paths II
• Minimum path sum
• add binary
• Text Justification
$27 ext{ } 1/10/2015, ext{Saturday}$
27.1 worked on 3 problems, $73/173$:
• Spiral matrix
• merge Interval
• insert Interval
• udgrade jdk from 1.6 to be 1.8, Emacs 1.6 to be 1.8 as well, don't have wired errors like Arrays.asList Collections.sort() any more, nice!
$28 ext{ } 1/9/2015, ext{Friday}$
28.1 worked on 2 problems, $70/173$:

• Permutation: Arrays.asList() not working in 1.6, spent hours here, figured it should be the openjde-1 too

1/11/2015, Sunday

outdated for being openide-1.6

1/8/2015, Thursday

worked on 9 problems, 68/173:

retate Image

· remove element

· valid sudoku

count and sayMultiply string

· search for a range

• search insert position

• Length of last word

• Pascal's Triangle

· merge sorted array

29

29.1

• Spiral matrix II

worked on 7 problems, 80/173:

26

```
worked on 12 problems, 59/173:
  • Integer to roman
  · roman to Integer

    Longest Common Prefix

  • 3Sum
  • 3Sum closest
  • letter Combination of a phone number
  • 4Sum

    remove nth node from end of list

  • Valid Parentheses

    merge two sorted list

  • swap nodes in pairs
  • reverse nodes in k-Group
     1/6/2015, Tuesday
31
      worked on 5 problems, 47/173:
  • sorrounded region

    two sum

  • add two numbers

    longest substring without Repeating characters

    ZigZag conversion string

      1/5/2015, Monday
  • worked on 0 succeed problems
       Other things
  • Go to a on 1/14/2015, Wednesday
     1/4/2015, Sunday
33
```

33.2 Other things

Valid Palindrom

• want to look into them and got JUnit framework for leetcode ready

• http://www.vogella.com/tutorials/JUnit/article.html

• http://junit.org/

• binary tree Maximum path sum

worked on 2 problems, 42/173:

1/7/2015, Wednesday

30

1/3/2015, Saturday

• copy list with random pointer, failed on tmp to move to next yesterday;

• word break; word break II TLE DP not thinking best time to buy and sell stock

worked on 5 problems, 40/173:

- best time to buy and sell stock III

• best time to buy and sell stock II

34.2Other things

• finally got the package working now with the help from online;

tomorrow will be another day.

- These two days, especially bad sleep. 7(8)~12:30pm last night, feeling can fall asleep now at 1:00am, hope
- only 5 today, Left all those slightly challenged ones for tomorrow.

1/2/2015, Friday 35

worked on 7 problems, 35/173:

- LRU Cache, need to rework on it sometime, doubly-linked list to maintain frequency not proficient;
- Insertion sort list, straight forward
- sort list, merge sort, when break it down into pieces, it's not that hard;
- evaluate reverse polish notation
- single number • single number II, half done, most basic, but needs the perfect method, tomorrow
- Now: I am not afraid of lists, or even trees, but still don't feel confortable with DP yet. Need some quality
 - time on couple of questions of that type. For Graphics as well. I will not touch them when I am headache, but will work on them when I have a mind.
- undone: binary tree Preorder Traversal iterative method still thinking

gas station

- 35.2Other things • When thought about sth, cannot fall asleep, fall asleep at 8:00am, and waked up at 12:00, so today would be
- filled with tidious things;
- The haircurt store was closed during Christmas (I went to the store most probably on 12/26 on the afternoon after I met the two who were leaving for CA on 24th, but I don't really remember. The door was closed and the note on door said they would open today), and I called today and they did, so I spent \$7+\$1 tip and half
- an hour in store got my hair cut, but still spent 1 hours at home to redo it to thin the hair layers; Cut hair has nothing to do with love life, but rather that I don't want to waste time on the hair at this semster; • try to organize previous courses contents, get the projects done better, and upload into github, and so far
- keep them secret until the time I need them in case in war; need to work on the appointment with professor web scheduling projects, because it is important, and sure will be beaten if I fail in case in war;
- target for fall asleep at 4:00am, but target for 8-10 easier algorithms problems be done before sleep; Time is so limited. I need change my schedule and use time more efficiently.

36 1/1/2015, Thursday

8.1 worked on 8 problems, 28/173:

- intersection of wto linked list
- reverse words in string
- find Minimum in rotated sorted array
- find Minimum in rotated sorted array with Duplicates
- min stack
- linked list cycle
- linked list cycle II find start
- Reorder list
- binary tree Preorder Traversal iterative method still thinking

37 12/31/2014, Wednesday

- java-mode autofill functions and yasnippets snippets, while keeping tab-indent block are all working now, like the emacs environment;
- worked on **9?10** problems, **19/173**:
 - Longest substring with at most 2 distinct characters, took my effort to rewrite it, sth can be done;
 - binary search tree iterator, understand theory, feels like just got Java environment ready;
 - excel sheet column number
 - factorial training zeroes
 - find peak element
 - maximum gap **dont like**
 - fraction to recurring decimal
 - excel sheet column title
 - majority element

38 12/30/2014, Tuesday

- get Emacs JDEE environment ready, can compile and run inside emacs now, convenient than using terminal jc j;
- worked on 5 problems, 9/173:
 - binary tree upside down
 - missing ranges
 - two sum II
 - one edit distance
 - DONT LIKE: read n characters given read4 II

- 12/20/2014, Saturday • Website (github), program highlight, and chinese input environment all good now;
- Will configure Linux Mint Java environment later, prefer emacs;

• 145/168 done before new season review, begin to work on these questions from today.

- Just got 4 easiest done: **149/168**
- excel sheet column title,

• Don't feel my mind is clear today at all, will look into job searing instead, hopefully tomorrow I can solve

gradually, like solve the clone graph to understand graph first before touch this one, but I will get this

- min stack,
- intersection of two linked list,

compare version number, and

40 12/21/2014, Sunday

39

- Only three got done today: 152/169 maximum gap
 - fraction to recurring decimal
- majority element
- more problems, and slightly complicated ones;
- 12/22/2014, Monday 41
 - So far got four done: **156/169** sort list
 - merge k sorted list - trapping rain water

 - recovery binary search tree

questions;

- am going to work on the rest 6 tonight, so that hopefully tomorrow I would be able to work on the new 10
- word ladder II: spent hours on this one, but got really sick with it! I should have solved my problems
 - divide two integers

one done later when I have clear mind.

 clone graph - find peak element

regular expression matching

- 12/23/2014, Tuesday 42
 - Meet IPO staff this morning got coming semester plans clear at 8:30am in the morning;
 - Will most probably meet some friend and have dinner together; changed to be tomorrow noon
 - Hopefully by this morning's dirruption meeting staff, I could change back my regular schedule instead of
 - 5am-13:30 day time sleeping, target for tonight fall asleep before 12:00am; fall asleep from 10:00-15:30, seems I will change my schedule back as expected tonight~!
 - Will not work on Algorithms for today, but work on it hard tomorrow. I have my confidence that I can figure them out, and do great job summarize the questions during my Java round, no worries!

- so far Got 2 done: 158/169
 - find peak element
 - maximal rectangle

43 12/24/2014, Wednesday

- \bullet 2:00(3:00am?)-11:00am, expect 2:00-9:00am schedule to night;
- Don't know why old accound doesn't work any more, use new account; from 158/169 to 0/169 using Java
- Worked on the following questions: 1/169
 - divide two integers, just got the Java environment ready
 - regular expression matching: working on it!, require understanding and summarizing

Tags	Counts	
Heap	1	Merge k Sorted Lists
Graph	1	Clone Graph
Data Structure	3	
Bit Manipulation	4	
Divide and Conquer	4	
Greedy	6	
Sort	6	
Breadth-first Search	7(32)	
Stack	11	
Binary Search	13	
Hash Table	16	
Math	17	
Linked List	19	
Depth-first Search	19	
Backtracking	21	
Two Pointers	22	
Dynamic Programming	23	
Tree	26	
String	38	
Array	56	

• Detailed Questions:

Tags	Counts	#	Title	Accepta
Heap	1	23	Merge k Sorted Lists	21.0%
Graph	1	133	Clone Graph	23.3%
Data Structure	3	170	Two Sum III - Data structure design	19.2%
		155	Min Stack	14.6%
		146	LRU Cache	14.3%
Bit Manipulation	4	78	Subsets	27.9%
		136	Single Number	46.0%
		137	Single Number II	34.0%
D: :1 1 0		169	Majority Element	31.6%
Divide and Conquer	4	23	Merge k Sorted Lists	21.0%
		$\frac{4}{53}$	Median of Two Sorted Arrays Maximum Subarray	$17.6\% \ 34.2\%$
		$\frac{55}{169}$	Majority Element	34.2% $31.7%$
Greedy	6	44	Wildcard Matching	14.6%
Greedy	U	55	Jump Game	27.2%
		45	Jump Game II	24.6%
		134	Gas Station	26.0%
		135	Candy	19.5%
		122	Best Time to Buy and Sell Stock II	37.0%
Sort	6	148	Sort List	20.9%
		75	Sort Colors	32.3%
		56	Merge Intervals	21.2%
		164	Maximum Gap	23.1%
		147	Insertion Sort List	25.5%
		57	Insert Interval	20.7%
Breadth-first Search	7(32)	127	Word Ladder	18.4%
		126	Word Ladder II	11.8%
		130	Surrounded Regions	14.3%
		133	Clone Graph Pinary Tree Zigger Level Order Treversel	23.3%
		103 102	Binary Tree Zigzag Level Order Traversal	$26.5\% \ 29.9\%$
		$\frac{102}{107}$	Binary Tree Level Order Traversal Binary Tree Level Order Traversal II	30.4%
Stack	11	20	Valid Parentheses	27.9%
DUACK	11	$\frac{20}{42}$	Trapping Rain Water	$\frac{27.9\%}{29.4\%}$
		71	Simplify Path	19.8%
		155	Min Stack	14.6%
		85	Maximal Rectangle	21.4%
		84	Largest Rectangle in Histogram	21.8%
		150	Evaluate Reverse Polish Notation	20.1%
		103	Binary Tree Zigzag Level Order Traversal	26.5%
		144	Binary Tree Preorder Traversal	35.8%
		145	Binary Tree Postorder Traversal	31.3%
		94	Binary Tree Inorder Traversal	35.7%
Binary Search	13	167	Two Sum II - Input array is sorted	45.1%
		69	$\operatorname{Sqrt}(x)$	22.5%
		35	Search Insert Position	35.0%
		33	Search in Rotated Sorted Array	28.7%
		81	Search in Rotated Sorted Array II	31.2%
		34 74	Search a 2D Matrix	27.6%
		74 50	Search a 2D Matrix	$31.2\% \ 26.2\%$
		$\frac{50}{4}$	Pow(x, n) Median of Two Sorted Arrays	26.2% 17.6%
		$\frac{4}{162}$	Find Peak Element	$\frac{17.6\%}{31.7\%}$
		$152 \\ 153$	Find Peak Element Find Minimum in Rotated Sorted Array	31.7% $32.2%$
		153 154	Find Minimum in Rotated Sorted Array II	$\frac{32.2\%}{29.9\%}$
		29	Divide Two Integers	16.5%
Hash Table	16	36	Valid Sudoku	27.3%
	10	1	Two Sum	18.3%
				10.0/0

12/25/2014, Thursday

- \bullet List a detailed plan of working on the algorithms; $\mathbf{Question}\ \mathbf{Tags}$ according to the Website:

$45 \quad 12/26/2014$, Friday

 $\bullet~$ two sum III

$46 \quad 12/29/2014, Monday$

 $\bullet\,$ read N characters given read 4