Algorithms Review for Job Interview

deepwaterooo

January 31, 2015

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L	1/31/2015, Saturday
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~
	• 3:00-10:30am; drmi dizi most painful body ever, drinking glasses & glasses water all day \cdots
	• wanted to work on threads, but got speedbar work instead;
	ullet worked on trees, , will try to finish trees to night…
	• way too tired, watch <sth> for rest…</sth>
2	1/30/2015, Friday
	• 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 moving, got physically tired recently, have good rest & get schedule back.
	• work on trees, threads and project tomorrow.
3	1/29/2015, Thursday
	\bullet 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;
	• Try to work on web scheduling system as soon as possible;
	• need to work hard on algorithms and projects…
	$ \begin{tabular}{l} \bullet \mbox{ start to work on java thread a little bit, terminal is ok, Emacs unreasonably throws java.lang.} \label{threadState} \mbox{ and I don't understand why emacs behaves Difficulty yet} \\ \end{tabular} $
	• work tomorrow day time, but will work on algorithms in the evening.

• 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

12

12

13

15

15

15

36 12/22/2014, Monday

 $37\ 12/23/2014$, Tuesday

 $38\ 12/24/2014$, Wednesday

39 12/25/2014, Thursday

40 12/26/2014, Friday

41 12/29/2014, Monday

 $4 \quad 1/28/2015$, Wednesday

• decode ways java version, bug …..

• too tired to continue work on it. have rest earlier…

• decode ways java version, bug • ~7:00-13:30, 6 1/26/2015, 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 worked on 3 problems, 175/175: finally Java once $\sim !!$ connect next Right • Wildcard Matching regular expression matching 7.2Other 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... 1/24/2015, Saturday worked on 1 problems, 174/175: 3 left Sudoku Solver 8.2Other things regular expression matching • Wildcard Matching connect next Right • $(4:30\sim5:00) \sim 2:30$, woke up from 10:00 to 2:00 from time to time, http://bbs.tianya.cn/post-culture-849459-117.shtml#ty_vip_look[V%E5%93%A5%E6%8E%B0%E8%B0%88 5:00-7:30 read 85-117; 117/166, want to finish this, a way to think... • 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,

1/27/2015, Tuesday

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

```
1/23/2015, Friday
     worked on 6 problems, 173/175: 4 left

    find substring idxes

   • sort Colors

    distinct Sequence

   • Interleaving Sequence
   • Scramble String
   • Candy
9.2
      Other 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
10
       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
10.2
       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
11
       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 11.2Other 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 12 12.1worked on 6 problems, 153/173: • 28, 140,, 126, 132, 5, 105, 106 • strStr word break II word ladder II • Palindrom Partitioning II

• 3:00-5:00, go campus, try to meet advisor, stubbern evening...

• longest Palindrom

• Preorder Inorder build tree • Inorder Postorder build tree

Other things

• (2:30~2:45) ~ 11:55

Palindrome Number

• Reverse Integer

will work coming week when docs processed ready, so try finish this round as soon as possible

- 1/19/2015, Monday 13
 - worked on 8 problems, 147/173: • 84, 42, 85, 11, 131, 179, 127, 28

• still, somebody else's mind in my body today, so not me~

- Largest Rectangle in Histogram
- Trapping Rain Water
- Maximal Rectangle
- Container With Most Water
- Palindrome Partitioning
- Largest Number Word Ladder

1/18/2015, Sunday 14worked on 10 problems, 139/173: 14.1• 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 Other 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 15worked 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)

13.2

Other things

• (3:30~4:00) ~ 11:05

• Permutation Sequence

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
- Can't believe I am so sleepy, headache around eleven… try fall asleep around two… long way to go…

• Need try greedy method some other time when mind is clear, all painful & bad memories about TLE…

1/16/2015, Friday 16 worked on 9 problems, 117/173:

• Wanted to swipe bottom up from 17?, but apparantly I am **NOT proficient enough** to solve the Difficult

- Anagrams
 - search in rotated sorted array with dup II: wrote mid = end 1 in the morning ~;
 - N-Queens
 - N-Queens II • Generate Parentheses
 - Combination Sum: don't know how to make it run faster
- Convert Sorted Array to Binary Search Tree

Remove Duplicates from Sorted List II

• 49, 81, 51, 52, 22, (39), 82, 108, 109, 149

- Convert Sorted List to Binary Search Tree
- Max Points on a Line, **Double** map key, (double)/(double) == (double)(int/int)???
- 16.2Other things

15.2

Other things

- ones yet, so take my time to solve them gradually~ • do NOT work in it any more tonight,
 - got especially headache this week, go grocery to get my water, have rest earlier & expecting tomorrow to work in DP ∼!
- 1/15/2015, Thursday
- 17.1
- worked on 10 problems, 108/173: Simplify Path
 - 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.

• Symmetric tree
19.2 Other things
• got very headache and 3:30-6:00pm food court training
20 1/12/2015, Monday
20.1 worked on 6 problems, $86/173$:
• 73, 74, 79, 83, 86, 92
• Set Matrix Zeroes
• Search a 2D matrix
• Word Search
• Remove Duplicates from Sorted Lists
• Partition list
• Reverse Linked List II

• 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

• path sum

18.2

19

20.2

Other things

• path sum II

• 98, 99, 100, 101

same tree

Validate binary search tree Recover binary search tree

• 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 1/10/2015, Saturday 22 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! 1/9/2015, Friday 23worked on 2 problems, 70/173:

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

Multiply string

Length of last word

• Pascal's Triangle

merge sorted array

search for a range

search insert position

Spiral matrix II

worked on 7 problems, 80/173:

• 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	
$26 \ 1/6/2015$, Tuesday	
26.1 worked on 5 problems, $47/173$:	
• sorrounded region	
• two sum	
• add two numbers	
• longest substring without Repeating characters	
• ZigZag conversion string	
27 1/5/2015, Monday	
• worked on 0 succeed problems	
27.1 Other things	
• Go to a on $1/14/2015$, Wednesday	
28 1/4/2015, Sunday	
28.1 worked on 2 problems, $42/173$:	
• binary tree Maximum path sum	
• Valid Palindrom	

 $25 \quad 1/7/2015$, Wednesday

28.2

Other things

• http://iunit.org/

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

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

25.1 worked on 12 problems, 59/173:

1/3/2015, Saturday worked on 5 problems, 40/173: • 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
- best time to buy and sell stock III

• best time to buy and sell stock II

- 29.2Other things
 - finally got the package working now with the help from online;
 - These two days, especially bad sleep. 7(8)~12:30pm last night, feeling can fall asleep now at 1:00am, hope tomorrow will be another day.
 - only 5 today, Left all those slightly challenged ones for tomorrow.
- 1/2/2015, Friday 30
- worked on 7 problems, 35/173: 30.1
 - 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

- 30.2Other 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.

$31 ext{ } 1/1/2015, ext{ Thursday}$

1.1 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

32 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

33 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
 - min stack,
 - excel sheet column title,
- compare version number, and
- intersection of two linked list,

34

35

- 12/21/2014, Sunday • Only three got done today: 152/169
- maximum gap
 - fraction to recurring decimal - majority element
- Don't feel my mind is clear today at all, will look into job searing instead, hopefully tomorrow I can solve more problems, and slightly complicated ones;
- 12/22/2014, Monday 36
 - So far got four done: **156/169**
 - merge k sorted list

sort list

questions;

- trapping rain water
- recovery binary search tree

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

regular expression matching

- divide two integers

one done later when I have clear mind.

- clone graph - find peak element
- 12/23/2014, Tuesday 37
 - Meet IPO staff this morning got coming semester plans clear at 8:30am in the morning;

them out, and do great job summarize the questions during my Java round, no worries!

- 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

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

38

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	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	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

$39 ext{ } 12/25/2014, ext{Thursday}$

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

$40 \quad 12/26/2014$, Friday

 $\bullet~$ two sum III

41 12/29/2014, Monday

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