Algorithms Review for Job Interview

deepwaterooo

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1	2/3/2015, Tuesday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• Last night schedule was assigned extra heavy one, got really tired…	
	• took shower, washed my feet using hot boiled water helping relax the body, watched sth for that half an hand fall asleep 12:00-8:30am, which was really getting my schedule back…	hour,
	• work as mush as I can before work at 3, and try to fall as leep around 12 to night too…	
2	2/2/2015, Monday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 5:00-11:30am; will work in the afternoon like yesterday, schedule not fixed yet, guess the arrangement now just for tmp only	right
	• work as mush as I can before work…	
3	2/1/2015, Sunday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 5:00-12:30am; worked day time; coming days breaks into parts too \cdots	
	• worked on trees, , will try to finish trees to night \cdots	
4	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 \cdots	
	• way too tired, watch <sth> for rest…</sth>	
5	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 wit moving, got physically tired recently, have good rest & get schedule back.	hout
	• 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;
- 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

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

- \bullet 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...

8 1/27/2015, Tuesday

- decode ways java version, bug …..
- ~7:00-13:30,

1/26/2015, Monday

- -- .
- Unique path, bug ···..
 - 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···.

10 1/25/2015, Sunday

- 0.1 worked on 3 problems, 175/175: finally Java once $\sim !!$
 - connect next Right
 - Wildcard Matching
 - regular expression matching

fall asleep after dinner after couple of page reading, 22:00 - 0:15, no wonder felt so XXXX during the afternoon, but don't understand why so tired recently... 12 1/23/2015, Friday 12.1 worked on 6 problems, 173/175: 4 left find substring idxes sort Colors distinct Sequence

• I think I got sick today, fever, 3-3:30 & 6:30-7:30 rest almost fall asleep

• Target: make a book of LeetCode just like them made it, which is pretty good~

• Try to summarize LeetCode questions, want to make a book of my own, just like the one I made for ctci...

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

10.2

11

11.1

Sudoku Solver

Other things

Wildcard Matchingconnect next Right

• Interleaving Sequence

Other things

regular expression matching

• Scramble String

· Sudoku Solver

Wildcard Matching

connect next Right
(4:00~4:30) ~ 11:30

• Candy

12.2

regular expression matching

Other things

think about what I should do next

Schedule appointment with layer

1/24/2015, Saturday

• $(4:30\sim5:00) \sim 12:30$, much better than yesterday~

worked on 1 problems, 174/175: 3 left

• $(4:30\sim5:00) \sim 2:30$, 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...

• go grocery buy food, have dinner, then conitnue the several questions

$13 ext{ } 1/22/2015, ext{ Thursday}$ $13.1 ext{ worked on 6 problems, } 167/175:$

3.1 worked on o problems, 101/110

- 50, 69, 4,, 119, 65, 174
- sqrt(x)
- pow(x)
- Median of Two Sorted Arrays
- Pascal's Triangle II

• valid number, god…

• Dungeon Game

- 13.2 Other things
 - (5:30~6:00) ~ 12:00, headache!!!
 - have rest after dinner, do as much as I can for today~!!

14 1/21/2015, Wednesday

4.1 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
- Palindrome Number
- Reverse Integer
- Remove Duplicates from Sorted Array
- Remove Duplicates from Sorted Array II

14.2 Other 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 ~!!

worked on 6 problems, 153/173: • 28, 140,, 126, 132, 5, 105, 106 • strStr word break II word ladder II • Palindrom Partitioning II • longest Palindrom • Preorder Inorder build tree • Inorder Postorder build tree 15.2Other things • (2:30~2:45) ~ 11:55 • still, somebody else's mind in my body today, so not me~ • 3:00-5:00, go campus, try to meet advisor, stubbern evening... will work coming week when does processed ready, so try finish this round as soon as possible 1/19/2015, Monday 16worked on 8 problems, 147/173: • 84, 42, 85, 11, 131, 179, 127, 28

1/20/2015, Tuesday

- Trapping Rain Water
- Maximal Rectangle
- Container With Most Water
- Palindrome Partitioning

• Largest Rectangle in Histogram

- Largest Number • Word Ladder
- 16.2Other things • (3:30~4:00) ~ 11:05
- 1/18/2015, Sunday 17
- worked on 10 problems, 139/173:
 - 78, 90, 77, 46, 47, 133, 152, 89, 72, 55, 45
 - Subsets II

• Subsets

- Combinations
- Permutations

- Permutations IIClone Graph
 - Maximum Product Subarray
 - Gray Code
 - Edit Distance
 - Jump Game
 - Jump Game II

$^{\prime}.2$ 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;

18 1/17/2015, Saturday

1.1 worked 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
- Combination Sum
- Combination Sum II

18.2 Other things

- 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…

19 1/16/2015, Friday

9.1 worked on 9 problems, 117/173:

- 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 \sim ;
- N-Queens
- N-Queens II
- 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
- Convert Sorted List to Binary Search Tree
- Max Points on a Line, **Double** map key, (double)/(doule) == (double)(int/int)???

19.2 Other things

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

20 1/15/2015, Thursday

1.1 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

• 98, 99, 100, 101
• Validate binary search tree
• Recover binary search tree
• same tree
• Symmetric tree
22.2 Other things
\bullet got very headache and 3:30-6:00pm food court training
23 1/12/2015, Monday
23.1 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
23.2 Other things
• wrote quite a few nippets for java-mode, works quite great~!

21

1/14/2015, Wednesday

binary tree Level order Traversal
binary tree Level order Traversal II

Maximum Depth of binary treeMinimum Depth of binary tree

• Balanced binary tree

Other things

path sumpath sum II

21.2

22

22.1

• 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

Spiral matrix II rotate list Unique paths Unique paths II Minimum path sum add binary Text Justification 25 1/10/2015, Saturday 25.1 worked on 3 problems, 73/173: Spiral matrix merge Interval insert Interval

$\frac{1}{9}/\frac{2015}{2015}$, Friday

6.1 worked on 2 problems, 70/173:

Collections.sort() any more, nice!

1/11/2015, Sunday

worked on 7 problems, 80/173:

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

 retate Image

• 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(),

7 1/8/2015, Thursday

7.1 worked on 9 problems, 68/173:

- remove element
- search for a range
- search insert position
- valid sudokucount and say
- Multiply string
- Length of last word
- Pascal's Triangle
- merge sorted array

• 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	
29 1/6/2015, Tuesday	
29.1 worked on 5 problems, $47/173$:	
• sorrounded region	
• two sum	
• add two numbers	
• longest substring without Repeating characters	
• ZigZag conversion string	
30 1/5/2015, Monday	
• worked on 0 succeed problems	
30.1 Other things	
• Go to a on $1/14/2015$, Wednesday	
31 1/4/2015, Sunday	
31.1 worked on 2 problems, $42/173$:	

31.2 Other things

• Valid Palindrom

28

28.1

1/7/2015, Wednesday

worked on 12 problems, 59/173:

• 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

- 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 II
- best time to buy and sell stock III
- Other things

32.2

- 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 33
 - 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

- 33.2Other 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.

34 1/1/2015, Thursday

4.1 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

35 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

36 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,
- intersection of two linked list,

compare version number, and

- 3812/21/2014, Sunday • Only three got done today: 152/169
 - maximum gap
 - fraction to recurring decimal

more problems, and slightly complicated ones;

- majority element • Don't feel my mind is clear today at all, will look into job searing instead, hopefully tomorrow I can solve
- 12/22/2014, Monday 39
 - So far got four done: **156/169**
 - sort list
 - merge k sorted list
 - 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

questions;

- 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 40
 - 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

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

- 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

41 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 C	4	169	Majority Element	31.6%
Divide and Conquer	4	23 4	Merge k Sorted Lists Median of Two Sorted Arrays	21.0% $17.6%$
		53	Maximum Subarray	34.2%
		169	Majority Element	31.7%
Greedy	6	$\frac{103}{44}$	Wildcard Matching	14.6%
	Ü	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%
D 141- C + C 1	7 (99)	57	Insert Interval	20.7%
Breadth-first Search	7 (32)	127	Word Ladder II	18.4%
		126 130	Word Ladder II	11.8% $14.3%$
		$130 \\ 133$	Surrounded Regions Clone Graph	14.3% $23.3%$
		103	Binary Tree Zigzag Level Order Traversal	26.5%
		103 102	Binary Tree Level Order Traversal	29.9%
		$102 \\ 107$	Binary Tree Level Order Traversal II	30.4%
Stack	11	20	Valid Parentheses	27.9%
· ·= · · · · · · · · · · · · · · · · ·	11	42	Trapping Rain Water	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%
D: C 1	10	94	Binary Tree Inorder Traversal	35.7%
Binary Search	13	167	Two Sum II - Input array is sorted	45.1%
		$\frac{69}{35}$	Sqrt(x) Search Insert Position	22.5%
		35 33	Search in Rotated Sorted Array	$35.0\% \ 28.7\%$
		33 81	Search in Rotated Sorted Array II	$\frac{26.7\%}{31.2\%}$
		34	Search for a Range	27.6%
		$\frac{54}{74}$	Search a 2D Matrix	31.2%
		50	Pow(x, n)	26.2%
		4	Median of Two Sorted Arrays	17.6%
		162	Find Peak Element	31.7%
		153	Find Minimum in Rotated Sorted Array	32.2%
		154	Find Minimum in Rotated Sorted Array II	29.9%
		29	Divide Two Integers	16.5%
Hash Table	16	36	Valid Sudoku	27.3%
		1	Two Sum	18.3%

12/25/2014, Thursday

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

43 12/26/2014, Friday

 $\bullet~$ two sum III

44 12/29/2014, Monday

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