Algorithms Review for Job Interview

deepwaterooo

February 2, 2015

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1	2/1/2015, Sunday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 5:00-12:30am; worked day time; coming days breaks into parts too…	
	ullet worked on trees, , will try to finish trees to night \cdots	
${f 2}$	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>	
3	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 with moving, got physically tired recently, have good rest & get schedule back.	hout
	• work on trees, threads and project tomorrow.	
4	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.IllegalThreadS and I don't understand why emacs behaves Difficulty yet…	State
	• work tomorrow day time, but will work on algorithms in the evening.	

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 headache

- 1.00 00.10, have no readon won a be neadache soday, but so get my benedure back, worth a neadach
- 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…
- 6 1/27/2015, Tuesday
 - decode ways java version, bug ···..

1/28/2015, Wednesday

- ~7:00-13:30,
- 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
- .1 worked on 3 problems, 175/175: finally Java once ~!!
- connect next RightWildcard Matching
- nomilar aumnagaian mataking
- regular expression matching
- 8.2 Other things
 - $(4:30\sim5:00)\sim12:30$, 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
 - 1 worked on 1 problems, 174/175: 3 left
 - Sudoku Solver

regular expression matchingWildcard Matching

Other things

• $(4:30\sim5:00)\sim2:30$, woke up from 10:00 to 2:00 from time to time,

connect next Right

9.2

• 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 conitnue the several questions
- fall as leep 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…

10 1/23/2015, Friday

- 10.1 worked on 6 problems, 173/175: 4 left
 - sort Colors
 - distinct Sequence

find substring idxes

- Interleaving Sequence
- 0 1
- Candy

Scramble String

- 10.2 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 asleep

11 1/22/2015, Thursday

- 11.1 worked on 6 problems, 167/175:
 - 50 60 4 110 65 17
 - 50, 69, 4,, 119, 65, 174

• sqrt(x)

- pow(x)
- Median of Two Sorted Arrays
- Pascal's Triangle II
- valid number, god…
- Dungeon Game

• 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 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 ~!! 1/20/2015, Tuesday 13worked 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 13.2Other 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

11.2

12

12.1

Other things

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

• 114, 31, 41, 32, 9, 7, 26, 80

1/21/2015, Wednesday

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

worked on 8 problems, 161/175:

14 1/19/2015, Monday

4.1 worked on 8 problems, 147/173:

- $\bullet \ 84, \, 42, \, 85, \, 11, \, 131, \, 179, \, 127, \, 28$
- Largest Rectangle in Histogram
- Trapping Rain Water
- Maximal Rectangle
- Container With Most Water
- Palindrome Partitioning
- Largest Number
- Word Ladder

14.2 Other things

• (3:30~4:00) ~ 11:05

15 1/18/2015, Sunday

6.1 worked on 10 problems, 139/173:

- 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

.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;

$16 ext{ } 1/17/2015, ext{ Saturday}$ $16.1 ext{ worked on } 12 ext{ problems, } 129/173:$

worked on 12 problems, 129/110

- 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

- D---1- W---
- Decode Ways
- Plus One
- String to Integer (atoi)Permutation Sequence
- Combination Sum
- Combination Sum II
- Combination Sum II

16.2 Other things

- 4:00 8:58, woke up for 2 min, fall back as leep in 2 mins after surfing internet for 2 mins;
- 1 cup coffee at ard 4pm alrdy after 20 mins nap

• wake up 11:48, better mind today, tried couple of dp, but how could I efficiently fall asleep before 4 tonight?

- 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…

7 1/16/2015, Friday

7.1 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 ~;
- ____
- N-QueensN-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)/(double) == (double)(int/int)???

17.2 Other things Wanted to swipe bottom up from 17?, but apparantly I am NOT proficient enough to solve the Difficult

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

18 1/15/2015, Thursday

18.1 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

19 1/14/2015, Wednesday

0.1 worked on 8 problems, 98/173:

- tree series: 102, 103, 104, 107, 110, 111, 112, 113
- binary tree Level order Traversal
- binary tree Level order Traversal II
- binary tree Level Zigzag order Traversal
- Maximum Depth of binary tree
- Minimum Depth of binary tree
- Balanced binary tree
- path sum
- path sum II

19.2 Other things

- a matter get it done as soon as possible, 7-12,
- didn't do anything in the evening, better not behave this way any more~!

20 1/13/2015, Tuesday

0.1 worked on 4 problems, 90/173:

- 98, 99, 100, 101
- $\bullet\,$ Validate binary search tree
- Recover binary search tree
- same tree
- Symmetric tree

20.2 Other things

• got very headache and 3:30-6:00pm food court training

$21 \quad 1/12/2015, Monday$

.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

21.2 Other things

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

22 1/11/2015, Sunday

.1 worked on 7 problems, 80/173:

- · Spiral matrix II
- rotate list
- Unique paths
- Unique paths II
- Minimum path sum
- add binary
- Text Justification

23.1 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!	().
24 1/9/2015, Friday	
24.1 worked on 2 problems, $70/173$:	
• Permutation: Arrays.asList() not working in 1.6, spent hours here, figured it should be the open jde-1 to outdated for being open jde-1.6	oc
• retate Image	
25 1/8/2015, Thursday	
25.1 worked on 9 problems, $68/173$:	
• remove element	
• search for a range	
• search insert position	
• valid sudoku	
• count and say	
• Multiply string	
• Length of last word	
• Pascal's Triangle	
• merge sorted array	
26 1/7/2015, Wednesday	
26.1 worked on 12 problems, $59/173$:	
• Integer to roman	
• roman to Integer	
• Longest Common Prefix	

3Sum closest letter Combination of a phone number

1/10/2015, Saturday

1

4Sumremove nth node from end of list

• Valid Parentheses

• 3Sum

- merge two sorted list
- swap nodes in pairs
- reverse nodes in k-Group

1/6/2015, Tuesday

.1 worked on 5 problems, 47/173:

- sorrounded region
- two sum

27

- add two numbers
- longest substring without Repeating characters
- ZigZag conversion string

28 1/5/2015, Monday

• worked on 0 succeed problems

28.1 Other things

• Go to a on 1/14/2015, Wednesday

$29 \quad 1/4/2015, \, \text{Sunday}$

.1 worked on 2 problems, 42/173:

- binary tree Maximum path sum
- Valid Palindrom

29.2 Other things

- want to look into them and got JUnit framework for leetcode ready
- http://www.vogella.com/tutorials/JUnit/article.html
- http://junit.org/

30 1/3/2015, Saturday

30.1 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 • 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
- only 5 today, Left all those slightly challenged ones for tomorrow.

1/2/2015, Friday 31

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
- gas station

tomorrow will be another day.

30.2

31.1

- 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

keep them secret until the time I need them in case in war;

- 31.2Other 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

need to work on the appointment with professor web scheduling projects, because it is important, and sure

• 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.

will be beaten if I fail in case in war;

1/1/2015, Thursday 32

- worked on 8 problems, 28/173:
- intersection of wto linked list reverse words in string

min stack

- find Minimum in rotated sorted array
- find Minimum in rotated sorted array with Duplicates

- linked list cycle
- linked list cycle II find start
- Reorder list
- binary tree Preorder Traversal iterative method still thinking

33 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

34 12/30/2014, Tuesday

- get Emacs JDEE environment ready, can compile and run inside emacs now, convenient than using terminal ic i:
- 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

$5 \ \ 12/20/2014,\, { m Saturday}$

- 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,

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

- sort list
 merge k sorted list
 trapping rain water
 - 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

- divide two integers
 clone graph
 find peak element
- 12/23/2014, Tuesday
- 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

find peak elementmaximal rectangle

12/21/2014, Sunday

more problems, and slightly complicated ones;

one done later when I have clear mind.

- regular expression matching

• so far Got 2 done: **158/169**

12/22/2014, Monday

• So far got four done: 156/169

36

37

38

- dnoedov
- $39 \ 12/24/2014$, Wednesday
 - 2:00(3:00am?)-11:00am, expect 2:00-9:00am schedule tonight;

• Worked on the following questions: 1/169

- \bullet Don't know why old accound doesn't work any more, use new account; from 158/169 to 0/169 using Java
 - 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	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

40 12/25/2014, Thursday

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

41 12/26/2014, Friday

 $\bullet~$ two sum III

$42 \quad 12/29/2014, Monday$

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