# Algorithms Review for Job Interview

 1

1

5

5

# deepwaterooo

deep water eee
February 7, 2015

- Contents
- $1 \quad 2/7/2015$ , Saturday
- 2 2/6/2015, Friday
- $3 \quad 2/5/2015$ , Thursday

7 2/1/2015, Sunday

9 1/30/2015, Friday

8 1/31/2015, Saturday

10 1/29/2015, Thursday

 $11 \ 1/28/2015$ , Wednesday

12 1/27/2015, Tuesday

13 1/26/2015, Monday

14 1/25/2015, Sunday

15 1/24/2015, Saturday

16 1/23/2015, Friday

17 1/22/2015, Thursday

18 1/21/2015, Wednesday

 $19 \ 1/20/2015$ , Tuesday

- $4 \quad 2/4/2015$ , Wednesday
- $5 \ 2/3/2015$ , Tuesday
- $6 \ 2/2/2015$ , Monday

<b>20</b>	1/19/2015, Monday         20.1 worked on 8 problems, 147/173:         20.2 Other things	6 6
<b>2</b> 1	1/18/2015, Sunday 21.1 worked on 10 problems, 139/173:	6 6 7
22		<b>7</b> 7
23		8 8 8
<b>24</b>	1/15/2015, Thursday 24.1 worked on 10 problems, 108/173:	8
<b>25</b>		<b>9</b> 9
<b>26</b>		<b>9</b> 9
<b>27</b>	± / / /	9 9
<b>28</b>	3 1/11/2015, Sunday 28.1 worked on 7 problems, 80/173:	<b>10</b> 10
<b>29</b>		<b>10</b> 10
<b>30</b>	1/9/2015, Friday 30.1 worked on 2 problems, 70/173:	<b>10</b> 10
<b>31</b>		10 10
<b>32</b>		<b>11</b> 11
33		<b>11</b> 11
<b>34</b>	1/5/2015, Monday 34.1 Other things	<b>11</b> 11
<b>35</b>	31/4/2015, Sunday       1         35.1 worked on 2 problems, 42/173:       1         35.2 Other things       1	
<b>36</b>	3 1/3/2015, Saturday       1         36.1 worked on 5 problems, 40/173:       1         36.2 Other things       1	

<b>37</b>	7 1/2/2015, Friday         37.1 worked on 7 problems, 35/173:         37.2 Other things	12 12 12
38	3 1/1/2015, Thursday 38.1 worked on 8 problems, 28/173:	<b>13</b> 13
39	12/31/2014, Wednesday	13
<b>40</b>	0.12/30/2014, Tuesday	13
41	. 12/20/2014, Saturday	14
<b>42</b>	2 12/21/2014, Sunday	14
<b>43</b>	3 12/22/2014, Monday	14
<b>14</b>	12/23/2014, Tuesday	14
<b>45</b>	5.12/24/2014, Wednesday	15
<b>46</b>	3.12/25/2014, Thursday	17
<b>47</b>	7 12/26/2014, Friday	17
<b>48</b>	3 12/29/2014, Monday	17
1	2/7/2015, Saturday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 3:00-10:00, roommate began to use dryer at 10:00am, gosh…	
	• so tired recently, read books…	
2	2/6/2015, Friday	
	• Reverse Nodes in k-Group recursion bug !~ ~ ~ ~	
	• 2:30-8:00, headache day…	
	• 9:00-5:00, rest 6:30-7:30, didn't fall asleep…	
	• will work on algorithm questions tomorrow…	
3	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 a facing Window… should be so much better now…	desk
	• 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 answers, but maybe one more round of algorithms so that I do UNDERSTAND instead of memorizing to by mistake···target for finishing in one week···	
	• work during day time, but will combe back for algorithms in the evening,	
	$\bullet \ \ LeetCode Summary .org file is too large killing my computer, maybe go back to it after one week \cdots$	
	• began to prepare for the projects, algorithms deeper understand and summarizing, after this week, no problems, project-oriented alter on	nore

- Reverse Nodes in k-Group recursion bug ! $\sim \sim \sim \sim$
- 1:30-10:30, it happens, don't know why...
- read initial chapters of EPI···.

 $4 \quad 2/4/2015$ , Wednesday

- 2/3/2015, Tuesday
- Reverse Nodes in k-Group recursion bug ! $\sim \sim \sim \sim$
- 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 hour, and fall asleep 12:00-8:30am, which was really getting my schedule back and nice...
- 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…
- will try to read some book in the morning, maybe try EPI tomorrow before work.
- 2/2/2015, Monday
- Reverse Nodes in k-Group recursion bug ! $\sim \sim \sim \sim$
- 5:00-11:30am; will work in the afternoon like yesterday, schedule not fixed yet, guess the arrangement right
- work as mush as I can before work…
- 7 2/1/2015, Sunday • Reverse Nodes in k-Group recursion bug !~ ~ ~ ~
  - 5:00-12:30am; worked day time; coming days breaks into parts too…
  - worked on trees, , will try to finish trees tonight…
  - 1/31/2015, Saturday

now just for tmp only....

- Reverse Nodes in k-Group recursion bug !~ ~ ~ ~
- 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…

• way too tired, watch <sth> for rest…

- 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.

# 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;

- , and a second s
- 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.

# 11 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

- 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…

# 12 1/27/2015, Tuesday

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

# 13 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···.

# 14 1/25/2015, Sunday

## 4.1 worked on 3 problems, 175/175: finally Java once $\sim !!$

- connect next Right
- Wildcard Matching
- regular expression matching

# connect next Right (4:30~5:00) ~ 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%885:00-7:30 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 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...

• 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...

14.2

15

16

Sudoku Solver

Other things

• Wildcard Matching

find substring idxes

• distinct Sequence

• Scramble String

· Sudoku Solver

Wildcard Matching

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

• Candy

16.2

• Interleaving Sequence

Other things

regular expression matching

sort Colors

regular expression matching

1/23/2015, Friday

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

worked on 6 problems, 173/175: 4 left

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

# worked on 6 problems, 167/175: • 50, 69, 4,, 119, 65, 174

1/22/2015, Thursday

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

#### 17.2Other 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 18

### 18.1worked 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

#### 18.2Other 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 ~!!

# 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 19.2Other 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 2020.1worked on 8 problems, 147/173: • 84, 42, 85, 11, 131, 179, 127, 28

- Largest Rectangle in Histogram
- Trapping Rain Water

1/20/2015, Tuesday

- Maximal Rectangle
- Container With Most Water
- Palindrome Partitioning
- Largest Number • Word Ladder

# Other things

20.2

- (3:30~4:00) ~ 11:05
- 1/18/2015, Sunday 21
- worked on 10 problems, 139/173:
  - 78, 90, 77, 46, 47, 133, 152, 89, 72, 55, 45
  - Combinations

• Subsets

Subsets II

- Permutations

- Permutations IIClone 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;

# 2 1/17/2015, Saturday

## 3.1 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

## 22.2 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…

# 23 1/16/2015, Friday

# 3.1 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)???

# 23.2 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 ~!

## $24 ext{ } 1/15/2015$ , Thursday

# 11 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

• Recover binary search tree
• same tree
• Symmetric tree
<ul> <li>26.2 Other things</li> <li>got very headache and 3:30-6:00pm food court training</li> </ul>
$27  ext{ } 1/12/2015,  ext{Monday}$
27.1 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
27.2 Other things

• 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

• Validate binary search tree

path sumpath sum II

25.2

**26** 

• 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

• Unique paths
• Unique paths II
• Minimum path sum
• add binary
• Text Justification
29 1/10/2015, Saturday
29.1 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!

# 1/9/2015, Friday

**30** 

# worked on 2 problems, 70/173:

outdated for being openide-1.6

1/11/2015, Sunday

· Spiral matrix II

rotate list

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
- 1/8/2015, Thursday

# worked on 9 problems, 68/173:

- · remove element
- search for a range

retate Image

- search insert position
- · valid sudoku
- count and say

· Multiply string

- Length of last word
- Pascal's Triangle
- merge sorted array

• 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 33 worked on 5 problems, 47/173: • sorrounded region two sum • add two numbers longest substring without Repeating characters ZigZag conversion string 341/5/2015, Monday • worked on 0 succeed problems Other things • Go to a on 1/14/2015, Wednesday 1/4/2015, Sunday 35 worked on 2 problems, 42/173: • binary tree Maximum path sum

1/7/2015, Wednesday

Integer to romanroman to Integer

Valid Palindrom

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

35.2

Longest Common Prefix

worked on 12 problems, 59/173:

- 1/3/2015, Saturday 36worked 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

- 36.2Other 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
- 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
- 37.2

gas station

- Other 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.

# 38 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

# 39 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

# 40 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,
- compare version number, and
- excel sheet column title,
  - intersection of two linked list,
- 4212/21/2014, 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

41

- 12/22/2014, Monday 43
  - 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;
      - divide two integers
      - find peak element

one done later when I have clear mind.

clone graph

regular expression matching

- 12/23/2014, Tuesday 44
  - 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

- 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

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

45

# 12/24/2014, Wednesday

- $\cdot$  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
$\operatorname{Graph}$	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%

# 46 12/25/2014, Thursday

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

# $47 \quad 12/26/2014$ , Friday

• two sum III

# $48 \quad 12/29/2014, Monday$

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