| January 27, 2015 |
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1

1

1

3

3

| 14         | 1/13/2015, Tuesday 14.1 worked on 4 problems, 90/173:       | <b>7</b><br>7<br>7 |
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| 15         | 1/12/2015, Monday 15.1 worked on 6 problems, 86/173:        | <b>7</b><br>7      |
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| <b>23</b>  | 1/4/2015, Sunday 23.1 worked on 2 problems, 42/173:         | <b>9</b><br>9      |
| <b>24</b>  | 1/3/2015, Saturday 24.1 worked on 5 problems, 40/173:       | 9<br>9<br>10       |
| <b>25</b>  | 1/2/2015, Friday 25.1 worked on 7 problems, 35/173:         | 10<br>10<br>10     |
| <b>26</b>  | 1/1/2015, Thursday 26.1 worked on 8 problems, 28/173:       | <b>10</b>          |
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| <b>35</b>  | 12/26/2014, Friday  | 15                 |
| 36         | 12/29/2014. Monday  | 15                 |

- 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:

- Or try to finish the question contents copy-paste for today then, 175 questions;

• call food court tomorrow, check first day of work...who knows what will happen next, but only stick to the study....

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

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

- Summarize dp, greedy and Backtracking first;

- connect next Right
- Wildcard Matching
- regular expression matching
- 2.2Other things
- $(4:30\sim5:00) \sim 12:30$ , much better than yesterday~

1/25/2015, Sunday

1/26/2015, Monday

think about what I should do next

1/24/2015, Saturday

- Target: make a book of LeetCode just like them made it, which is pretty good~
- Schedule appointment with layer
- worked on 1 problems, 174/175: 3 left
- Sudoku Solver
- 3.2Other things
- regular expression matching
  - Wildcard Matching
  - connect next Right •  $(4:30\sim5:00)\sim2:30$ , 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%8]
  - 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, 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
4.2
     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
5.1 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

• 114, 31, 41, 32, 9, 7, 26, 80

• Next Permutation

• First Missing Positive

Longest Valid Parentheses

worked on 8 problems, 161/175:

• Flatten binary tree to Preorder all Right nodes

6

- 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 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 7.2Other 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 docs processed ready, so try finish this round as soon as possible 1/19/2015, Monday
  - worked on 8 problems, 147/173:
    84, 42, 85, 11, 131, 179, 127, 28
  - Largest Rectangle in Histogram
  - Largest Rectangle in FTrapping Rain Water

Palindrome Number

- Maximal Rectangle
- Container With Most Water
- Palindrome Partitioning
- Largest NumberWord Ladder

| 8.2 | Other things   |
|-----|--|
| •   | $(3:30\sim4:00)\sim11:05$  |
| 9   | 1/18/2015, Sunday  |
| 9.1 | 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   |
| 9.2 | 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 as<br>leep after dinner, evening depends…        |
| •   | should be able to fall asleep before 5am tonight then;   |
| 10  | 1/17/2015, Saturday  |
| 10. | 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

- 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
- 1/16/2015, Friday 11

• 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…

- worked on 9 problems, 117/173:
  - 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
    - Remove Duplicates from Sorted List II
  - Convert Sorted Array to Binary Search Tree

• 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)???
- 11.2Other things

Simplify Path

10.2

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 ∼!
- 1/15/2015, Thursday 12
- 12.1worked 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  |
| <ul><li>14.2 Other things</li><li>got very headache and 3:30-6:00pm food court training</li></ul> |
| $15 \ 1/12/2015$ , Monday   |
| 15.1 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  |

• 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

13.2

14

• path sum II

• 98, 99, 100, 101

• Reverse Linked List II

Other things

15.2

• 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   |
| 17 1/10/2015, Saturday   |
| 17.1 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! |
| 18 $1/9/2015$ , Friday   |
| 18.1 worked on 2 problems, $70/173$ :  |
| • Permutation: Arrays.asList() not working in 1.6, spent hours here, figured it should be the openjde-1 to outdated for being openide-1.6    |

1/11/2015, Sunday

• Spiral matrix II

• rotate list

• 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

19

1/8/2015, Thursday

worked on 9 problems, 68/173:

worked on 7 problems, 80/173:

| 20.1 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                                      |
| 21 	 1/6/2015, Tuesday<br>21.1 worked on 5 problems, $47/173$ : |
| • sorrounded region   |
| • two sum   |
| • add two numbers   |
| • longest substring without Repeating characters                |
| • ZigZag conversion string                                      |
| 22 1/5/2015, Monday   |
| • worked on 0 succeed problems                                  |
| 22.1 Other things   |
| • Go to a on $1/14/2015$ , Wednesday                            |
| 23 1/4/2015, Sunday   |
| 23.1 worked on 2 problems, $42/173$ :                           |

#### 23.2Other things

• Valid Palindrom

20

1/7/2015, Wednesday

 $\bullet\,$  want to look into them and got JUnit framework for leetcode ready

• http://junit.org/

• binary tree Maximum path sum

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

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

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

24.2

- 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 25

- 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
- 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

• single number

- 25.2Other 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.

# 26 1/1/2015, Thursday

#### 6.1 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

### 27 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

#### 28 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,
- min stack,
- compare version number, and
- intersection of two linked list,

29

- 30 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 31
  - 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
  - regular expression matching - divide two integers

one done later when I have clear mind.

- clone graph - find peak element
- 12/23/2014, Tuesday 32
  - 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

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

### 33 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 |
| $\operatorname{Graph}$ | 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<br>4          | Merge k Sorted Lists<br>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   | 18.4%                   |
|  |        | 126<br>130       | Word Ladder II                                      | 11.8% $14.3%$           |
|  |        | $130 \\ 133$     | Surrounded Regions<br>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)<br>Search Insert Position                   | 22.5%                   |
|  |        | 35<br>33         | Search in Rotated Sorted Array                      | $35.0\% \ 28.7\%$       |
|  |        | 33<br>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%                   |

## $34 \ 12/25/2014$ , Thursday

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

### $35 \quad 12/26/2014, \text{ Friday}$

• two sum III

#### $36 \quad 12/29/2014, Monday$

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