#### Jenny Huang

January 2, 2015

• get Emacs JDEE environment ready, can compile and run inside emacs now, convenient than using terminal

java-mode autofill functions and yasnippets snippets, while keeping tab-indent block are all working now, like

Longest substring with at most 2 distinct characters, took my effort to rewrite it, sth can be done:

1

4 1/2, Friday

2 12/31/2014, Wednesday

4.1 worked on \* **problems**, \*/173:

3 1/1/2015, Thursday

5 12/20/2014, Saturday

6 12/21/2014, Sunday

7 12/22/2014, Monday

8 12/23/2014, Tuesday

9 12/24/2014, Wednesday

10 12/25/2014, Thursday

11 12/26/2014, Friday

12 12/29/2014, Monday

12/30/2014, Tuesday

• worked on 5 problems, 9/173:

- missing ranges two sum II

one edit distance

the emacs environment;

- binary tree upside down

12/31/2014, Wednesday

• worked on **9?10** problems, **19/173**:

- **DONT LIKE:** read n characters given read4 II

1

jc j;

Contents			
1 12/30/2014, Tuesday	y		

$$\operatorname{Contents}$$

Algorithms Review for Job Interview
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Algorithms	Review	for	Job	Interview
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- 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

# 1/1/2015, Thursday

### 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

### 1/2, Friday

### 4.1 worked on \* problems, \*/173:

• binary tree Preorder Traversal - iterative method still thinking

- 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.

- 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 • So far got four done: 156/169
- 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

one done later when I have clear mind.

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

- find peak element maximal rectangle

• Worked on the following questions: 1/169

- clone graph

merge k sorted list

12/21/2014, Sunday

- maximum gap

sort list

• Only three got done today: 152/169

- fraction to recurring decimal

- find peak element

- regular expression matching

- 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

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** 

I will change my schedule back as expected tonight~!

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

# 10 12/25/2014, Thursday

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

# 11 12/26/2014, Friday

• two sum III

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

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