

1.3.1. Array

基础		
27	Remove Element	
26	Remove Duplicates from Sorted Array	
80	Remove Duplicates from Sorted Array II	
277	Find the Celebrity	
189	Rotate Array	
41	First Missing Positive	haven't found a good solution for O(1) space
299	Bulls and Cows	
134	Gas Station	
118	Pascal's Triangle	很少考
119	Pascal's Triangle II	很少考
169	Majority Element	很少考
229	Majority Element II	很少考
274	H-Index	

275	H-Index II	Binary Search
243	Shortest Word Distance	
244	Shortest Word Distance II	
245	Shortest Word Distance III	
217	Contains Duplicate	
219	Contains Duplicate II	很少考
220	Contains Duplicate III	很少考
55	Jump Game	
45	Jump Game II	
121	Best Time to Buy and Sell Stock	
122	Best Time to Buy and Sell Stock II	
123	Best Time to Buy and Sell Stock III	
188	Best Time to Buy and Sell Stock IV	
309	Best Time to Buy and Sell Stock with Cooldown	
11	Container With Most Water	
42	Trapping Rain Water	
334	Increasing Triplet Subsequence	

128	Longest Consecutive Sequence	
164	Maximum Gap	Bucket
287	Find the Duplicate Number	
135	Candy	很少考
330	Patching Array	很少考
提高		
4	Median of Two Sorted Arrays	
321	Create Maximum Number	很少考
327	Count of Range Sum	很少考
289	Game of Life	
Interval		
57	Insert Interval	
56	Merge Intervals	
252	Meeting Rooms	
253	Meeting Rooms II	

352	Data Stream as Disjoint Intervals	TreeMap
Counter		
239	Sliding Window Maximum	
295	Find Median from Data Stream	
53	Maximum Subarray	
325	Maximum Size Subarray Sum Equals k	
209	Minimum Size Subarray Sum	
238	Product of Array Except Self	
152	Maximum Product Subarray	
228	Summary Ranges	
163	Missing Ranges	
Sort		
88	Merge Sorted Array	
75	Sort Colors	
283	Move Zeroes	

376	Wiggle Subsequence	
280	Wiggle Sort	
324	Wiggle Sort II	

1.3.2. String

基础		
28	Implement strStr()	
14	Longest Common Prefix	
58	Length of Last Word	
387	First Unique Character in a String	
383	Ransom Note	
344	Reverse String	
151	Reverse Words in a String	
186	Reverse Words in a String II	
345	Reverse Vowels of a String	
205	Isomorphic Strings	
293	Flip Game	

294	Flip Game II	
290	Word Pattern	
242	Valid Anagram	
49	Group Anagrams	
249	Group Shifted Strings	
87	Scramble String	
179	Largest Number	很少考
6	ZigZag Conversion	很少考
161	One Edit Distance	
38	Count and Say	
358	Rearrange String k Distance Apart	
316	Remove Duplicate Letters	
271	Encode and Decode Strings	
168	Excel Sheet Column Title	
171	Excel Sheet Column Number	
13	Roman to Integer	
12	Integer to Roman	

273	Integer to English Words	
246	Strobogrammatic Number	
247	Strobogrammatic Number II	
248	Strobogrammatic Number III	很少考
提高		
68	Text Justification	
65	Valid Number	
157	Read N Characters Given Read4	
158	Read N Characters Given Read4 II - Call multiple times	
Substring		
76	Minimum Window Substring	Sliding Window
30	Substring with Concatenation of All Words	Sliding Window
3	Longest Substring Without Repeating Characters	Sliding Window

340	Longest Substring with At Most K Distinct Characters	Sliding Window
395	Longest Substring with At Least K Repeating Characters	Sliding Window
159	Longest Substring with At Most Two Distinct Characters	Sliding Window
Palindrome		
125	Valid Palindrome	
266	Palindrome Permutation	
5	Longest Palindromic Substring	
9	Palindrome Number	
214	Shortest Palindrome	
336	Palindrome Pairs	
131	Palindrome Partitioning	
132	Palindrome Partitioning II	
267	Palindrome Permutation II	
Parentheses		

20	Valid Parentheses	
22	Generate Parentheses	
32	Longest Valid Parentheses	
241	Different Ways to Add Parentheses	
301	Remove Invalid Parentheses	
Subsequence		
392	Is Subsequence	
115	Distinct Subsequences	
187	Repeated DNA Sequences	很少考

1.3.3. Math

基础		
7	Reverse Integer	
165	Compare Version Numbers	
66	Plus One	
8	String to Integer (atoi)	

258	Add Digits	
67	Add Binary	
43	Multiply Strings	
29	Divide Two Integers	
69	Sqrt(x)	
50	Pow(x, n)	
367	Valid Perfect Square	
365	Water and Jug Problem	
204	Count Primes	
Sum		
1	Two Sum	
167	Two Sum II - Input array is sorted	
15	3Sum	
16	3Sum Closest	很少考
259	3Sum Smaller	很少考
18	4Sum	

很少考		
231	Power of Two	
326	Power of Three	
342	Power of Four	
372	Super Pow	
233	Number of Digit One	
319	Bulb Switcher	
292	Nim Game	
202	Happy Number	
400	Nth Digit	
263	Ugly Number	
264	Ugly Number II	
306	Additive Number	
172	Factorial Trailing Zeroes	
343	Integer Break	
396	Rotate Function	

390	Elimination Game	
386	Lexicographical Numbers	
357	Count Numbers with Unique Digits	
360	Sort Transformed Array	
397	Integer Replacement	
368	Largest Divisible Subset	

1.3.4. Tree

基础		
144	Binary Tree Preorder Traversal	preorder
94	Binary Tree Inorder Traversal	Inorder
145	Binary Tree Postorder Traversal	postorder
102	Binary Tree Level Order Traversal	DFS + BFS
Preorder		
100	Same Tree	preorder
101	Symmetric Tree	preorder

226	Invert Binary Tree	preorder + BFS
257	Binary Tree Paths	preorder
112	Path Sum	preorder
113	Path Sum II	preorder
129	Sum Root to Leaf Numbers	preorder
298	Binary Tree Longest Consecutive Sequence	preorder
111	Minimum Depth of Binary Tree	preorder
Postorder		
104	Maximum Depth of Binary Tree	postorder
110	Balanced Binary Tree	postorder
124	Binary Tree Maximum Path Sum	postorder
250	Count Univalued Subtrees	postorder
366	Find Leaves of Binary Tree	postorder
337	House Robber III	postorder + preorder

BFS		
107	Binary Tree Level Order Traversal II	BFS
103	Binary Tree Zigzag Level Order Traversal	BFS
199	Binary Tree Right Side View	BFS + preorder
BST		
98	Validate Binary Search Tree	preorder
235	Lowest Common Ancestor of a Binary Search Tree	preorder
236	Lowest Common Ancestor of a Binary Tree	postorder
108	Convert Sorted Array to Binary Search Tree	binary search
109	Convert Sorted List to Binary Search Tree	binary search
173	Binary Search Tree Iterator	inorder
230	Kth Smallest Element in a BST	inorder
297	Serialize and Deserialize Binary Tree	BFS
285	Inorder Successor in BST	inorder
270	Closest Binary Search Tree Value	preorder
272	Closest Binary Search Tree Value II	inorder

99	Recover Binary Search Tree	inorder
重要程度		
156	Binary Tree Upside Down	很少考
114	Flatten Binary Tree to Linked List	很少考
255	Verify Preorder Sequence in Binary Search Tree	很少考
333	Largest BST Subtree	很少考
222	Count Complete Tree Nodes	很少考
105	Construct Binary Tree from Preorder and Inorder Traversal	很少考
106	Construct Binary Tree from Inorder and Postorder Traversal	很少考
116	Populating Next Right Pointers in Each Node	重要
117	Populating Next Right Pointers in Each Node II	重要
314	Binary Tree Vertical Order Traversal	重要
96	Unique Binary Search Trees	重要
95	Unique Binary Search Trees II	很少考
331	Verify Preorder Serialization of a Binary Tree	很少考

1.3.5. Backtracking

基础		
78	Subsets	
90	Subsets II	
77	Combinations	
39	Combination Sum	
40	Combination Sum II	
216	Combination Sum III	
377	Combination Sum IV	Dynamic Programming
254	Factor Combinations	
46	Permutations	
47	Permutations II	
31	Next Permutation	String
60	Permutation Sequence	String
291	Word Pattern II	

Enumeration		
17	Letter Combinations of a Phone Number	
320	Generalized Abbreviation	要重录
93	Restore IP Addresses	很少考
282	Expression Add Operators	
140	Word Break II	
351	Android Unlock Patterns	

1.3.6. Dynamic Programming

一维		
70	Climbing Stairs	
62	Unique Paths	
63	Unique Paths II	
120	Triangle	很少考
279	Perfect Squares	
139	Word Break	
375	Guess Number Higher or Lower II	

312	Burst Balloons	
322	Coin Change	
二维		
256	Paint House	
265	Paint House II	
64	Minimum Path Sum	
72	Edit Distance	
97	Interleaving String	
174	Dungeon Game	
221	Maximal Square	
85	Maximal Rectangle	
363	Max Sum of Rectangle No Larger Than K	TreeSet
化简		
198	House Robber	
213	House Robber II	

276	Paint Fence	
91	Decode Ways	
10	Regular Expression Matching	
44	Wildcard Matching	

1.3.7. LinkedList

基础	
206	Reverse Linked List
141	Linked List Cycle
	<p>Swap nodes in a linked list without swapping data (interesting, how to write clean code)</p> <p>https://www.geeksforgeeks.org/swap-nodes-in-a-linked-list-without-swapping-data/</p>
24	Swap Nodes in Pairs
328	Odd Even Linked List
92	Reverse Linked List II
237	Delete Node in a Linked List
19	Remove Nth Node From End of List

83	Remove Duplicates from Sorted List
	Remove Duplicates from Unsorted List https://www.geeksforgeeks.org/remove-duplicates-from-an-unsorted-linked-list/
203	Remove Linked List Elements
82	Remove Duplicates from Sorted List II
369	Plus One Linked List
2	Add Two Numbers
160	Intersection of Two Linked Lists
	intersection point of two Linked Lists. https://www.geeksforgeeks.org/write-a-function-to-get-the-intersection-point-of-two-linked-lists/
21	Merge Two Sorted Lists
提高	
234	Palindrome Linked List
143	Reorder List
142	Linked List Cycle II
148	Sort List

25	Reverse Nodes in k-Group
61	Rotate List
86	Partition List
23	Merge k Sorted Lists
147	Insertion Sort List

1.3.8. Binary Search

基础	
278	First Bad Version
35	Search Insert Position
33	Search in Rotated Sorted Array
81	Search in Rotated Sorted Array II
153	Find Minimum in Rotated Sorted Array
154	Find Minimum in Rotated Sorted Array II
162	Find Peak Element
374	Guess Number Higher or Lower
34	Search for a Range

349	Intersection of Two Arrays
350	Intersection of Two Arrays II
315	Count of Smaller Numbers After Self
300	Longest Increasing Subsequence
354	Russian Doll Envelopes

1.3.9. Matrix

48	Rotate Image
54	Spiral Matrix
59	Spiral Matrix II
73	Set Matrix Zeroes
311	Sparse Matrix Multiplication
329	Longest Increasing Path in a Matrix
378	Kth Smallest Element in a Sorted Matrix
74	Search a 2D Matrix
240	Search a 2D Matrix II
370	Range Addition

79	Word Search
296	Best Meeting Point
361	Bomb Enemy
317	Shortest Distance from All Buildings
302	Smallest Rectangle Enclosing Black Pixels
36	Valid Sudoku
37	Sudoku Solver

1.3.10. DFS & BFS

基础		
200	Number of Islands	
286	Walls and Gates	
130	Surrounded Regions	
339	Nested List Weight Sum	
364	Nested List Weight Sum II	
127	Word Ladder	
51	N-Queens	

52	N-Queens II	
126	Word Ladder II	

1.3.11. Stack & PriorityQueue

Stack		
155	Min Stack	
232	Implement Queue using Stacks	
225	Implement Stack using Queues	
150	Evaluate Reverse Polish Notation	
71	Simplify Path	
388	Longest Absolute File Path	
394	Decode String	
224	Basic Calculator	
227	Basic Calculator II	
385	Mini Parser	
84	Largest Rectangle in Histogram	

PriorityQueue		
215	Kth Largest Element in an Array	
347	Top K Frequent Elements	
313	Super Ugly Number	很少考
373	Find K Pairs with Smallest Sums	很少考
218	The Skyline Problem	
332	Reconstruct Itinerary	
341	Flatten Nested List Iterator	

1.3.12. Bit Manipulation

基础	
389	Find the Difference
136	Single Number
318	Maximum Product of Word Lengths
很少考	
393	UTF-8 Validation

201	Bitwise AND of Numbers Range
371	Sum of Two Integers
338	Counting Bits
89	Gray Code
268	Missing Number
191	Number of 1 Bits
190	Reverse Bits
137	Single Number II
260	Single Number III

1.3.13. Topological Sort

基础	
207	Course Schedule
210	Course Schedule II
269	Alien Dictionary

1.3.14. Random

基础	
----	--

模板	Reservoir Sampling
384	Shuffle an Array
398	Random Pick Index
382	Linked List Random Node
380	Insert Delete GetRandom O(1)
381	Insert Delete GetRandom O(1) - Duplicates allowed
138	Copy List with Random Pointer

1.3.15. Graph

基础		
133	Clone Graph	
399	Evaluate Division	
310	Minimum Height Trees	
图形学		
335	Self Crossing	很少考
149	Max Points on a Line	

356	Line Reflection	很少考
391	Perfect Rectangle	很少考
223	Rectangle Area	很少考

1.3.16. Union Find

基础	
261	Graph Valid Tree
323	Number of Connected Components in an Undirected Graph
305	Number of Islands II

1.3.17. Trie

基础	
211	Add and Search Word - Data structure design
208	Implement Trie (Prefix Tree)
212	Word Search II

1.3.18. Design

基础		
359	Logger Rate Limiter	

346	Moving Average from Data Stream	Sliding Window
362	Design Hit Counter	
281	Zigzag Iterator	
284	Peeking Iterator	
251	Flatten 2D Vector	
288	Unique Word Abbreviation	
170	Two Sum III - Data structure design	
348	Design Tic-Tac-Toe	
379	Design Phone Directory	
353	Design Snake Game	
146	LRU Cache	
355	Design Twitter	
303	Range Sum Query - Immutable	
304	Range Sum Query 2D - Immutable	
307	Range Sum Query - Mutable	Binary Index Tree
308	Range Sum Query 2D - Mutable	Binary Index Tree

1.4. Leetcode 前 400 重点 250 题

1.4.1. 划分说明

这个重点题目是我个人把Leetcode前400题进行精简，精简方法如下：

- 删除不常考，面试低频出现题目
- 删除重复代码题目（例：链表反转206题，代码在234题出现过）
- 删除过于简单题目（例：100题：Same Tree）
- 删除题意不同，代码基本相同题目（例：136 & 389，保留一个）

所有题目我尽量保证客观公正，只是按大概率删除不常考题目，很多题目面经出现过，但出现次数属于个位数或者只有一两家出现。所以**如在面试中出现删除题目概不负责**，这只是从**概率上**删除低频，简单题目。旨在减轻大家的刷题负担，从400题减少到250题。

适用人群：有一定刷题基础，算法基础，**二刷人群**。

建议：400题全部刷完，再精刷这250题。

1.4.2. 重点题目

ID	Title
1	Two Sum
3	Longest Substring Without Repeating Characters
4	Median of Two Sorted Arrays

5	Longest Palindromic Substring
7	Reverse Integer
8	String to Integer (atoi)
10	Regular Expression Matching
11	Container With Most Water
12	Integer to Roman
13	Roman to Integer
15	3Sum
17	Letter Combinations of a Phone Number
18	4Sum
20	Valid Parentheses
22	Generate Parentheses
23	Merge k Sorted Lists
26	Remove Duplicates from Sorted Array
27	Remove Element
28	Implement strStr()
29	Divide Two Integers

31	Next Permutation
32	Longest Valid Parentheses
33	Search in Rotated Sorted Array
34	Search for a Range
35	Search Insert Position
36	Valid Sudoku
37	Sudoku Solver
38	Count and Say
39	Combination Sum
40	Combination Sum II
41	First Missing Positive
42	Trapping Rain Water
43	Multiply Strings
44	Wildcard Matching
45	Jump Game II
46	Permutations
47	Permutations II

48	Rotate Image
49	Group Anagrams
50	Pow(x, n)
51	N-Queens
52	N-Queens II
53	Maximum Subarray
54	Spiral Matrix
55	Jump Game
56	Merge Intervals
57	Insert Interval
59	Spiral Matrix II
60	Permutation Sequence
62	Unique Paths
64	Minimum Path Sum
65	Valid Number
66	Plus One
67	Add Binary

68	Text Justification
69	Sqrt(x)
70	Climbing Stairs
71	Simplify Path
72	Edit Distance
74	Search a 2D Matrix
75	Sort Colors
76	Minimum Window Substring
77	Combinations
78	Subsets
79	Word Search
80	Remove Duplicates from Sorted Array II
81	Search in Rotated Sorted Array II
82	Remove Duplicates from Sorted List II
84	Largest Rectangle in Histogram
85	Maximal Rectangle
88	Merge Sorted Array

90	Subsets II
91	Decode Ways
96	Unique Binary Search Trees
98	Validate Binary Search Tree
101	Symmetric Tree
104	Maximum Depth of Binary Tree
108	Convert Sorted Array to Binary Search Tree
110	Balanced Binary Tree
111	Minimum Depth of Binary Tree
112	Path Sum
113	Path Sum II
115	Distinct Subsequences
116	Populating Next Right Pointers in Each Node
117	Populating Next Right Pointers in Each Node II
121	Best Time to Buy and Sell Stock
122	Best Time to Buy and Sell Stock II
123	Best Time to Buy and Sell Stock III

124	Binary Tree Maximum Path Sum
125	Valid Palindrome
126	Word Ladder II
127	Word Ladder
128	Longest Consecutive Sequence
130	Surrounded Regions
133	Clone Graph
134	Gas Station
138	Copy List with Random Pointer
139	Word Break
140	Word Break II
142	Linked List Cycle II
146	LRU Cache
149	Max Points on a Line
150	Evaluate Reverse Polish Notation
152	Maximum Product Subarray
153	Find Minimum in Rotated Sorted Array

154	Find Minimum in Rotated Sorted Array II
155	Min Stack
157	Read N Characters Given Read4
158	Read N Characters Given Read4 II - Call multiple times
161	One Edit Distance
162	Find Peak Element
163	Missing Ranges
168	Excel Sheet Column Title
171	Excel Sheet Column Number
173	Binary Search Tree Iterator
186	Reverse Words in a String II
174	Dungeon Game
188	Best Time to Buy and Sell Stock IV
189	Rotate Array
191	Number of 1 Bits
198	House Robber
200	Number of Islands

201	Bitwise AND of Numbers Range
202	Happy Number
204	Count Primes
205	Isomorphic Strings
207	Course Schedule
208	Implement Trie (Prefix Tree)
209	Minimum Size Subarray Sum
210	Course Schedule II
211	Add and Search Word - Data structure design
212	Word Search II
213	House Robber II
214	Shortest Palindrome
215	Kth Largest Element in an Array
216	Combination Sum III
217	Contains Duplicate
218	The Skyline Problem
219	Contains Duplicate II

220	Contains Duplicate III
221	Maximal Square
224	Basic Calculator
225	Implement Stack using Queues
226	Invert Binary Tree
227	Basic Calculator II
228	Summary Ranges
230	Kth Smallest Element in a BST
231	Power of Two
232	Implement Queue using Stacks
235	Lowest Common Ancestor of a Binary Search Tree
236	Lowest Common Ancestor of a Binary Tree
238	Product of Array Except Self
239	Sliding Window Maximum
240	Search a 2D Matrix II
241	Different Ways to Add Parentheses
242	Valid Anagram

244	Shortest Word Distance II
245	Shortest Word Distance III
249	Group Shifted Strings
251	Flatten 2D Vector
252	Meeting Rooms
253	Meeting Rooms II
254	Factor Combinations
256	Paint House
257	Binary Tree Paths
261	Graph Valid Tree
263	Ugly Number
264	Ugly Number II
265	Paint House II
268	Missing Number
269	Alien Dictionary
270	Closest Binary Search Tree Value
271	Encode and Decode Strings

273	Integer to English Words
274	H-Index
275	H-Index II
276	Paint Fence
277	Find the Celebrity
278	First Bad Version
279	Perfect Squares
280	Wiggle Sort
282	Expression Add Operators
283	Move Zeroes
284	Peeking Iterator
285	Inorder Successor in BST
286	Walls and Gates
287	Find the Duplicate Number
288	Unique Word Abbreviation
289	Game of Life
290	Word Pattern

291	Word Pattern II
293	Flip Game
294	Flip Game II
295	Find Median from Data Stream
296	Best Meeting Point
297	Serialize and Deserialize Binary Tree
298	Binary Tree Longest Consecutive Sequence
299	Bulls and Cows
300	Longest Increasing Subsequence
301	Remove Invalid Parentheses
302	Smallest Rectangle Enclosing Black Pixels
305	Number of Islands II
307	Range Sum Query - Mutable
308	Range Sum Query 2D - Mutable
309	Best Time to Buy and Sell Stock with Cooldown
311	Sparse Matrix Multiplication
312	Burst Balloons

314	Binary Tree Vertical Order Traversal
316	Remove Duplicate Letters
317	Shortest Distance from All Buildings
318	Maximum Product of Word Lengths
322	Coin Change
323	Number of Connected Components in an Undirected Graph
324	Wiggle Sort II
325	Maximum Size Subarray Sum Equals k
329	Longest Increasing Path in a Matrix
334	Increasing Triplet Subsequence
336	Palindrome Pairs
337	House Robber III
338	Counting Bits
339	Nested List Weight Sum
340	Longest Substring with At Most K Distinct Characters
341	Flatten Nested List Iterator
346	Moving Average from Data Stream

347	Top K Frequent Elements
348	Design Tic-Tac-Toe
350	Intersection of Two Arrays II
351	Android Unlock Patterns
352	Data Stream as Disjoint Intervals
353	Design Snake Game
354	Russian Doll Envelopes
355	Design Twitter
359	Logger Rate Limiter
361	Bomb Enemy
362	Design Hit Counter
364	Nested List Weight Sum II
367	Valid Perfect Square
374	Guess Number Higher or Lower
375	Guess Number Higher or Lower II
376	Wiggle Subsequence
377	Combination Sum IV

378	Kth Smallest Element in a Sorted Matrix
379	Design Phone Directory
380	Insert Delete GetRandom O(1)
381	Insert Delete GetRandom O(1) - Duplicates allowed
384	Shuffle an Array
385	Mini Parser
389	Find the Difference
394	Decode String
398	Random Pick Index