3. Leetcode 分类顺序

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

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 Univalue 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

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

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

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