**高频：**

**133：**[**Clone Graph**](https://leetcode.com/problems/clone-graph)

**DFS + hashmap(label -> node)**

**269,** [**Alien Dictionary**](https://leetcode.com/problems/alien-dictionary)

**Build adjacent graph + Topologic sort**

**98,** [**Validate Binary Search Tree**](https://leetcode.com/problems/validate-binary-search-tree)

**DFS: dfs(node, min, max)**

**314,** [**Binary Tree Vertical Order Traversal**](https://leetcode.com/problems/binary-tree-vertical-order-traversal)

**BFS：q = [[node, row]];**

**56,** [Merge Intervals](https://leetcode.com/problems/merge-intervals)

Sort + merge to last element if last\_end >= cur\_start.

**253,** [Meeting Rooms II](https://leetcode.com/problems/meeting-rooms-ii)

1. Sort by time, end before start
2. 1 pass,start room ++, end room--

**215,** [Kth Largest Element in an Array](https://leetcode.com/problems/kth-largest-element-in-an-array) min Heap

**349,** [Intersection of Two Arrays](https://leetcode.com/problems/intersection-of-two-arrays)

523, [Continuous Subarray Sum](https://leetcode.com/problems/continuous-subarray-sum)

Prefix sum, sum = sum % k

**560,** [Subarray Sum Equals K](https://leetcode.com/problems/subarray-sum-equals-k)

**Prefix sum, map store frequency**

**301,** [Remove Invalid Parentheses](https://leetcode.com/problems/remove-invalid-parentheses)

**67,** [Add Binary](https://leetcode.com/problems/add-binary)

**297,** [Serialize and Deserialize Binary Tree](https://leetcode.com/problems/serialize-and-deserialize-binary-tree)

**282,** [Expression Add Operators](https://leetcode.com/problems/expression-add-operators) （only +）

**211** [Add and Search Word - Data structure design](https://leetcode.com/problems/add-and-search-word-data-structure-design)

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**一般：**

**33** [Search in Rotated Sorted Array](https://leetcode.com/problems/search-in-rotated-sorted-array)

**20** [Valid Parentheses](https://leetcode.com/problems/valid-parentheses)

**239** [Sliding Window Maximum](https://leetcode.com/problems/sliding-window-maximum)

**158** [Read N Characters Given Read4 II - Call multiple times](https://leetcode.com/problems/read-n-characters-given-read4-ii-call-multiple-times)

**23** [Merge k Sorted Lists](https://leetcode.com/problems/merge-k-sorted-lists)

**173** [Binary Search Tree Iterator](https://leetcode.com/problems/binary-search-tree-iterator)

**26** [Remove Duplicates from Sorted Array](https://leetcode.com/problems/remove-duplicates-from-sorted-array)

**233** [Number of Digit One](https://leetcode.com/problems/number-of-digit-one)

**15 不能sort 3sum**

**1004** [Max Consecutive Ones III](https://leetcode.com/problems/max-consecutive-ones-iii)

**939** [**Minimum Area Rectangle**](https://leetcode.com/problems/minimum-area-rectangle)

**43** [**Multiply Strings**](https://leetcode.com/problems/multiply-strings)

**622** [**Design Circular Queue**](https://leetcode.com/problems/design-circular-queue)要求order 不能变

240 [Search a 2D Matrix II](https://leetcode.com/problems/search-a-2d-matrix-ii)

304 [Range Sum Query 2D - Immutable](https://leetcode.com/problems/range-sum-query-2d-immutable)

560 [Subarray Sum Equals K](https://leetcode.com/problems/subarray-sum-equals-k)

528 [Random Pick with Weight](https://leetcode.com/problems/random-pick-with-weight) binary search

791 [Custom Sort String](https://leetcode.com/problems/custom-sort-string) hashmap sequence,

277 [Find the Celebrity](https://leetcode.com/problems/find-the-celebrity)

621 [Task Scheduler](https://leetcode.com/problems/task-scheduler)

54 [Spiral Matrix](https://leetcode.com/problems/spiral-matrix)

88 [Merge Sorted Array](https://leetcode.com/problems/merge-sorted-array)

415 [Add Strings](https://leetcode.com/problems/add-strings)

973 [K Closest Points to Origin](https://leetcode.com/problems/k-closest-points-to-origin)

31 [Next Permutation](https://leetcode.com/problems/next-permutation)

708 [Insert into a Cyclic Sorted List](https://leetcode.com/problems/insert-into-a-cyclic-sorted-list)

199 [Binary Tree Right Side View](https://leetcode.com/problems/binary-tree-right-side-view)

398 [Random Pick Index](https://leetcode.com/problems/random-pick-index) reservoir sampling

311 [Sparse Matrix Multiplication](https://leetcode.com/problems/sparse-matrix-multiplication)

572 [Subtree of Another Tree](https://leetcode.com/problems/subtree-of-another-tree)

227. Basic Calculator II (only + \*)

给一个矩阵

类似这样的

[[0, 0, 1, 1, 1],

[0, 1, 1, 1, 1],

[0, 0, 1, 1, 1],

[0, 0, 0, 0, 0],

[0, 0, 0, 1, 1]]

1. 每一个cell 要不是0 要不是1

2. 每一行只要发现一个1， 剩下的都是1

3. 这个数组是正方形的

问题：找到最左边的有1的列

这个例子的结果是 2

|  |
| --- |
| 今天刷到这道题了 其实也是面经题  \* 最优法复杂度O(m + n), m是行，n是列  \* 从右上角开始(i,j)，如果当前元素是1并且(i,j-1)也是1，那么就左移走到(i,j-1);  \* 否则，往下走到(i+1,j)  \* 重复这个操作，直到i==m  \* 最后return j |

(240变种)

|  |
| --- |
| **Leetcode 621 变种，就是任务的顺序不能改变，求需要多少个slots才能执行完全部的任务。**  **感觉正是有了蠡口题目的思维定式，一直在考虑最高频率字符，怎么安排task的问题，完全跑偏，正确的解法是用哈希，记录当前同种任务上一次执行的time。** |

**给一个string：aaabc, 要求返回的string连续的两个char不能相同，（e.g. abaca, acaba), 返回一个即可。(use max heap)**