剑指 Offer II 035. 最小时间差

```
class Solution {
    public:
 3
        int func(string &s) {
            return (s[0] - '0') * 10 * 60 + (s[1] - '0') * 60 + (s[3] - '0') * 10 +
    s[4] - '0';
        int findMinDifference(vector<string>& timePoints) {
            sort(timePoints.begin(), timePoints.end());
            int ans = func(timePoints[0]) + 24 * 60 -
    func(timePoints[timePoints.size() - 1]);
            for (int i = 1; i < timePoints.size(); i++) {</pre>
10
                ans = min(ans, func(timePoints[i]) - func(timePoints[i - 1]));
11
            return ans;
12
13
```

剑指 Offer II 036. 后缀表达式

```
class Solution {
    public:
 3
        int is number(string &s) {
4
             return s.size() > 1 | (s[0] >= '0' \&\& s[0] <= '9');
5
         int evalRPN(vector<string>& tokens) {
7
             stack<int> sta;
             for (int i = 0; i < tokens.size(); i++) {</pre>
 9
                if (is_number(tokens[i])) {
                     sta.push(stoi(tokens[i]));
10
11
                 } else {
                     int b = sta.top();
12
13
                     sta.pop();
                     int a = sta.top();
14
15
                     sta.pop();
                     int c;
16
                     if (tokens[i][0] == '+') c = a + b;
17
                     else if (tokens[i][0] == '-') c = a - b;
18
                     else if (tokens[i][0] == '*') c = a * b;
19
20
                     else c = a / b;
21
                     sta.push(c);
22
23
```

```
24 return sta.top();
25 }
26 };
```

剑指 Offer II 034. 外星语言是否排序

```
class Solution {
    public:
3
        unordered_map<char, char> m;
        int func(string &a, string &b) {
 5
            int n = min(a.size(), b.size());
            for (int i = 0; i < n; i++) {
 7
                if (m[a[i]] < m[b[i]]) {
                    return 0;
 9
10
                if (m[a[i]] > m[b[i]]) {
11
                    return 1;
12
13
            if (a.size() > b.size()) {
14
15
                return 1;
16
17
            return 0;
18
19
        bool isAlienSorted(vector<string>& words, string order) {
            for (int i = 0; i < 26; i++) {
20
21
                m[order[i]] = i + 'a';
            }
2.2
            for (int i = 1; i < words.size(); i++) {
23
24
                if (func(words[i - 1], words[i])) {
25
                    return false;
26
27
28
            return true;
29
    };
```

<u>剑指 Offer II 033. 变位</u>词组

```
class Solution {
public:
    vector<vector<string>> groupAnagrams(vector<string>& strs) {
    vector<vector<string> > ans;
    unordered_map<string, int> m;
```

```
for (auto &s : strs) {
                string temp = s;
8
                sort(temp.begin(), temp.end());
9
               if (m.count(temp) == 1) {
10
                    ans[m[temp]].push_back(s);
11
                } else {
12
                    m[temp] = ans.size();
13
                    ans.push back(vector<string>{s});
14
15
          return ans;
16
17
18
   };
```

剑指 Offer II 012. 左右两边子数组的和相等

```
class Solution {
    public:
        int pivotIndex(vector<int>& nums) {
            int n = nums.size();
            vector<int> sum(n + 1);
            for (int i = 1; i <= n; i++) {
7
                sum[i] = sum[i - 1] + nums[i - 1];
9
          for (int i = 0; i < n; i++) {
10
                if (sum[i] == sum[n] - sum[i + 1]) {
11
                    return i;
12
13
14
            return -1;
15
16
```

<u>剑指 Offer II 010. 和为 k 的子</u>数组

```
class Solution {
  public:
    int subarraySum(vector<int>& nums, int k) {
        int n = nums.size();
        vector<int> sum(n + 1);
        for (int i = 1; i <= n; i++) {
            sum[i] = sum[i - 1] + nums[i - 1];
        }
        unordered_map<int, int> m;
}
```

```
10
            int ans= 0;
11
            for (int i = 0; i <= n; i++) {
12
                int temp = sum[i] - k;
13
               if (m.count(temp)) {
14
                    ans += m[temp];
15
16
               m[sum[i]]++;
17
18
            return ans;
19
```

剑指 Offer 56 - I. 数组中数字出现的次数

```
class Solution {
    public:
        vector<int> singleNumbers(vector<int>& nums) {
 4
             int t = 0;
             for (auto x : nums) {
                 t ^= x;
             int ind = 0;
9
             while ((t & (1 << ind)) == 0) {
10
             ind++;
11
             int a = 0, b = 0;
12
13
             for (auto x : nums) {
                if ((x & (1 << ind)) == 0) {
14
15
                     a = x;
16
                 } else {
17
                     b \stackrel{\cdot}{=} x;
18
19
            return vector<int>{a, b};
20
21
    };
```

<u>剑指 Offer 56 - Ⅱ. 数组中数字出现的次数 Ⅱ</u>

```
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        int bit2[32] = {0};
        for (auto x : nums) {
}
```

```
for (int i = 0; x; i++) {
                   if ((x & 1) != 0) {
8
                  bit2[i]++;
9
10
                   x >>= 1;
11
12
           int ans = 0;
13
           for (int i = 0; i <= 31; i++) {
15
              bit2[i] %= 3;
              if (bit2[i] != 0) {
                   ans += 1 << i;
17
18
19
20
           return ans;
21
```

剑指 Offer II 003. 前 n 个数字二进制中 1 的个数

```
class Solution {
   public:
       vector<int> countBits(int n) {
3
          vector<int> ans(n + 1);
     for (int i = 1; i <= n; i++) {
              if (i & 1) {
                  ans[i] = ans[i - 1] + 1;
7
8
             } else {
9
                  ans[i] = ans[i / 2];
10
11
12
          return ans;
13
14
   };
```

剑指 Offer II 005. 单词长度的最大乘积

```
bit2[i] |= (1 << (c - 'a'));
10
11
            int ans = 0;
            for (int i = 0; i < n; i++) {
12
                for (int j = i + 1; j < n; j++) {
13
                    if ((bit2[i] & bit2[j]) == 0) {
14
15
                        ans = max(ans, (int)(words[i].size() * words[j].size()));
16
17
18
19
            return ans;
20
21
```