

1. 1763. Longest Nice Substring

Solution:

```
class Solution {
   string longestNiceSubstring(string s) {
       string ans="";
       for(int i=0;i<s.length();i++){</pre>
           int count=0;
           string temp="";
           vector<bool> a(26,0),b(26,0);
           for(int j=i;j<s.length();j++){</pre>
               temp.push_back(s[j]);
               if(s[j]>='A' && s[j]<='Z'){
                   if(a[s[j]-'A']==0 && b[s[j]-'A']==0)
                    count++;
                    else if(a[s[j]-'A'] && !b[s[j]-'A'])
                    b[s[j]-'A']=1;
                    if(b[s[j]-'a']==0 && a[s[j]-'a']==0)
                    count++;
                    else if(b[s[j]-'a'] && !a[s[j]-'a'])
                    count--;
                    a[s[j]-'a']=1;
               if(ans.size()<temp.size() && count==0)</pre>
               ans=temp;
```

• Screenshot:



2. 190.Reverse Bits

• Solution:

• Screenshot:



3. 191. Number of 1 Bits

• Solution:

```
class Solution {
public:
    int hammingWeight(int n) {
        int count=__builtin_popcount(n);
        return count;
    }
};
```

• Screenshot:



4. 53.Maximum Subarray

• Solution:

```
class Solution {
public:
    int maxSubArray(vector<int>& nums) {
        int maxSum = nums[0];
        int currentSum = nums[0];

        for (int i = 1; i < nums.size(); i++) {
            currentSum = max(nums[i], currentSum + nums[i]);
            maxSum = max(maxSum, currentSum);
        }
        return maxSum;
    }
};</pre>
```

• Screenshot:



5. 240.Search a 2D Matrix II

• Solution:

```
class Solution {
public:
    bool searchMatrix(vector<vector<int>>& matrix, int target) {
        int cols = matrix[0].size() - 1;
        int n = matrix.size() - 1;
        int rows = 0;

        while(rows <= n && cols >= 0) {
            int toCompare = matrix[rows][cols];
            if(toCompare > target) {
                 cols--;
            }else if(toCompare < target) {
                      rows++;
            }else {
                     return true;
            }
        }
        return false;
}</pre>
```

• Screenshot:



6. 372.Super Pow

• Solution:

```
class Solution {
   const int base = 1337;
   int powmod(int a, int k) //a^k mod 1337 where 0 <= k <= 10
   {
      a %= base;
      int result = 1;
      for (int i = 0; i < k; ++i)
           result = (result * a) % base;
      return result;
   }
   public:
   int superPow(int a, vector<int>& b) {
      if (b.empty()) return 1;
      int last_digit = b.back();
      b.pop_back();
      return powmod(superPow(a, b), 10) * powmod(a, last_digit) % base;
   }
};
```

• Screenshot:

