**Leetcode Log**

2016.7.23

001\_TwoSum 2Y

Given a series of numbers and a target. The problems requires to get the index of the two numbers whose sum is the target.

Not much to say, two-layer-loop to enumerate all conditions and terminate when ever there is a solution. The time complexity is O(n^2)。

At the first time when I submitted my solution, I didn’t write “return XXX” at the end of the function. Though I passed the test on my computer, but got an compilation error on leetcode because under some circumstances there will be no return value even if the problem told us there must be exactly one solution. The same error may happen if we don't write a return line after “else”.

By using unordered map we could reduce the time complexity of find the position to O(1), thus the total complexity can be reduced to O(n).(Detailed in code)

2016.8.2

002\_AddTwoNumbers 1Y

Review the basic operation of list and pointer.

004\_MedianOfTwoSortedArrays 1Y

005\_LongestPalindromicSubstring 1Y

006\_ZigZagCoversion 3Y

1st WA forget to consider empty string && forget to consider when numRows == 1.

2st Memory Exceeded didn’t calculate the size of the pattern array.

Watch out the initialization of 2-D arrays. We can not do it dynamically.

007\_ReverseInteger 2Y

1st WA forget to consider when reversed, the result could be larger than MAX\_INT.

008\_StringToInteger Too Many Was

Consider WhiteSpaces at the beginning.Consider ‘+’ and ‘-’, and the conversion break when there is a character which is not a number. Finally you have to consider the overload of MAX\_INT and MIN\_INT.