1.ReverseWordString:

- can’t reverse with O(1) space

+ revese full string, find a word and reverse each of them

2.Maximum Size Subarray Sum Equals k

- Can’t resolve in O(N)

+ consider sum = k + <sum from 0 to i> where i is array index and sum is the sum of first i items.

+Save previous ith sum to map

3.Longest Palindromic Substring

- can’t sort it out

+ use DP and consider even(i-1,i) and odd(i-1,i+1) substrings as polyndrom for O(n^2) and O(1).

4.Product of Array Except Self

- Can’t sort it out

+ Use resulting array to calculation. First get product(i) = product(i-1)\*num(i-1) product(0) = 1. Then product(n-1) = right \* product(n-1) where right = 1 for n-1,then right = right \* num(i)

 5.Find the Duplicate Number

+ Sort the item and find same adjacent items.

6.Intersection of Two Linked Lists

- make while until list1 != list2 list1 = list1.next and list2 = list2.next,

If list1 == null list1 = head1 and if list2 == null list2 = head2 Floyd algorithm.

7.Symmetric Tree

Create method for x and y to compare x.left and y.right and x.right and y.left.To pass root,root to this method.