```
1. Two Sum
       var twoSum = function(nums, target) {
          const prev = {};
          for (let i in nums) {
             if (prev[target - nums[i]]) {
               return [prev[target - nums[i]], i];
            } else {
               prev[nums[i]] = i;
            }
          }
       };
3. Longest Substring Without Repeating Characters
* @param {string} s
* @return {number}
*/
var lengthOfLongestSubstring = function(s) {
  const memo = {};
  let longestLength = 0, left = 0, right = 0;
  while (right < s.length) {
     if (!memo[s[right]] || memo[s[right]] === 0) {
        if (memo[s[right]] == 0) {
          memo[s[right]] += 1;
       } else {
          memo[s[right]] = 1;
       }
     } else {
       longestLength = Math.max(longestLength, right - left);
       while (s[left] !== s[right]) {
          memo[s[left]] -= 1;
          left += 1;
       }
       left += 1
     right += 1;
  longestLength = Math.max(longestLength, right - left);
  return longestLength;
};
```