LeetCode:

**1. Two Sum**  
Given an array of integers, return **indices** of the two numbers such that they add up to a specific target.

You may assume that each input would have ***exactly*** one solution.

**Example:**

Given nums = [2, 7, 11, 15], target = 9,

Because nums[**0**] + nums[**1**] = 2 + 7 = 9,

return [**0**, **1**].

第一次答案：

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| public class Solution {  public int[] twoSum(int[] nums, int target) {  boolean flag = false;  int[] result = new int[2];  for (int i=0 ; i<nums.length ; i++){  for (int j=i+1 ;j<nums.length;j++){  if (nums[i]+nums[j]==target){  result[0] = i;  result[1] = j;  flag = true;  break;  }  }  if(flag == true)  break;  }  return result;  }  } |

算法复杂度高，运行时间长。

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| import java.util.HashMap;  import java.util.Iterator;  public class Solution {  public int[] twoSum(int[] nums, int target) {  int[] result = new int[2];  HashMap<Integer,Integer> map = new HashMap<Integer,Integer>();  for(int i =0;i<nums.length;i++){  if(map.containsKey(nums[i])){  int index = map.get(nums[i]);  result[0] = index;  result[1] = i;  break;  }else{  map.put(target - nums[i], i);  }  }  return result;  }  } |