1. 3Sum Closest

Medium

Given an array nums of *n* integers and an integer target, find three integers in nums such that the sum is closest to target. Return the sum of the three integers. You may assume that each input would have exactly one solution.

**Example:**

Given array nums = [-1, 2, 1, -4], and target = 1.  
  
The sum that is closest to the target is 2. (-1 + 2 + 1 = 2).

思路同15，稍作修改，不用考虑去重的问题

class Solution {  
public:  
 int threeSumClosest(vector<int>& nums, int target) {  
 int ans, d = INT\_MAX;  
 sort(nums.begin(), nums.end());  
 int n = nums.size();  
 for(int i = 0; i < n - 2; ++i){  
 int m = target -nums[i];  
 int j = i + 1, k = n - 1;  
 while(j < k){  
 int temp = nums[j] + nums[k];  
 if(abs(temp - m) < d){  
 ans = nums[i] + nums[j] + nums[k];  
 d = abs(temp - m);  
 }  
 if(temp == m){  
 break;  
 }else if(temp < m){  
 j++;  
 }else{  
 k--;  
 }  
 }  
 }  
 return ans;  
 }  
};