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Given an array S of n integers, find three integers in S such that the sum is closest to a given number, target. Return the sum of the three integers. You may assume that each input would have exactly one solution.

For example, given array S = {-1 2 1 -4}, and target = 1.

The sum that is closest to the target is 2. (-1 + 2 + 1 = 2).

题目：3sum最接近target

思路：和3sum一样，先排序，固定第一个数，两个指针移动后两个数，往中间移动。

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class Solution {

public:

int threeSumClosest(vector<int>& nums, int target)

{

if(nums.size()==0)

return 0;

int targ;

int result=0;

int small=INT\_MAX;

sort(nums.begin(),nums.end());

int left,right;

for(int i=0;i<nums.size()-2;i++)

{

targ=target-nums[i];

left=i+1;

right=nums.size()-1;

while(left<right)

{

if(abs(nums[left]+nums[right]-targ)<small)

{

small=abs(nums[left]+nums[right]-targ);

result=nums[left]+nums[right]+nums[i];

}

if(nums[left]+nums[right]>targ)

right--;

else if(nums[left]+nums[right]<targ)

left++;

else

return target;

}

}

return result;

}

};