class Solution {

public:

vector<vector<int>> threeSum(vector<int>& nums) {

vector<vector<int>> res\_set;

if (nums.empty())

return res\_set;

if (nums.size()<3)

return res\_set;

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

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

{

if (a>0 && nums[a]==nums[a-1])

continue;

int low=a+1;

int high=nums.size()-1;

while(low<high)

{

vector<int> res ;

if( (nums[low]+nums[high])==-nums[a])

{

res.push\_back(nums[a]);

res.push\_back(nums[low]);

res.push\_back(nums[high]);

res\_set.push\_back(res);

while ( low+1 < nums.size() && nums[low]==nums[low+1])

low++;

while( high-1 >=0 && nums[high]==nums[high-1])

high--;

low++;

high--;

}

else if((nums[low]+nums[high])>-nums[a])

high--;

else

low++;

}

}

return res\_set;

}

};