[3Sum](https://leetcode.com/problems/3sum/)

**import** java.util.\*;

**public** **class** ThreeSum {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[] nums = {-1, 0, 1, 2, -1, -4};

System.***out***.println(*threeSum*(nums));

}

**public** **static** List<List<Integer>> threeSum(**int**[] nums) {

List<List<Integer>> result = **new** ArrayList<>();

**if**(nums == **null** || nums.length == 0) {

**return** result;

}

Arrays.*sort*(nums);

**for**(**int** i = 0 ; i < nums.length - 2 ; i++) {

**if**(i > 0 && nums[i] == nums[i - 1]) {

**continue**;

}

**int** j = i + 1;

**int** k = nums.length - 1;

**while**(j < k) {

**if**(nums[i] + nums[j] + nums[k] == 0) {

result.add(Arrays.*asList*(nums[i], nums[j++] , nums[k--]));

**while**(i < j && j < k && nums[j] == nums[j - 1])

j++;

**while**(j < k && k < nums.length - 1 && nums[k] == nums[k + 1])

k--;

}

**else** **if**(nums[i] + nums[j] + nums[k] < 0)

j++;

**else**

k--;

}

}

**return** result;

}

}

Time complexity : O(n^2 + nlogn). Number of elements in nums array

Space Complexity : O(1)