# 15. 3Sum

## SOLUTION IN JAVA

class Solution {

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

if (nums.length < 3)

return new ArrayList<>();

List<List<Integer>> ans = new ArrayList<>();

Arrays.sort(nums);

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

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

continue;

int l = i + 1;

int r = nums.length - 1;

while (l < r) {

final int sum = nums[i] + nums[l] + nums[r];

if (sum == 0) {

ans.add(Arrays.asList(nums[i], nums[l++], nums[r--]));

while (l < r && nums[l] == nums[l - 1])

++l;

while (l < r && nums[r] == nums[r + 1])

--r;

} else if (sum < 0) {

++l;

} else {

--r;

}

}

}

return ans;

}

}