LeetCode Question:

Q.15 3Sum

public class Solution {

public IList<IList<int>> ThreeSum(int[] nums)

{

IList<IList<int>> result = new List<IList<int>>();

if (nums == null || nums.Length < 3)

{

return result;

}

Array.Sort(nums);

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

{

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

{

continue;

}

int left = i + 1;

int right = nums.Length - 1;

while (left < right)

{

int sum = nums[i] + nums[left] + nums[right];

if (sum == 0)

{

result.Add(new List<int>{nums[i],

nums[left], nums[right]});

while(left<right && nums[left] == nums[left + 1])

{

left++;

}

while(left<right && nums[right] == nums[right - 1])

{

right--;

}

left++;

right--;

}

else if (sum < 0)

{

left++;

}

else

{

right--;

}

}

}

return result;

}

}