# 16. 3Sum Closest

## SOLUTION IN JAVA

class Solution {

public int threeSumClosest(int[] nums, int target) {

int ans = nums[0] + nums[1] + nums[2];

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 == target)

return sum;

if (Math.abs(sum - target) < Math.abs(ans - target))

ans = sum;

if (sum < target)

++l;

else

--r;

}

}

return ans;

}

}