# 53. Maximum Subarray

## SOLUTION IN JAVA

class Solution {

public int maxSubArray(int[] nums) {

// dp[i] := the maximum sum subarray ending in i

int[] dp = new int[nums.length];

dp[0] = nums[0];

for (int i = 1; i < nums.length; ++i)

dp[i] = Math.max(nums[i], dp[i - 1] + nums[i]);

return Arrays.stream(dp).max().getAsInt();

}

}