561. Array Partition

Given an integer array nums of 2_n integers, group these integers into n pairs (a_1, b_1) , (a_2, b_2) , ..., (a_n, b_n) such that the sum of min (a_i, b_i) for all i is maximized. Return the maximized sum.

Example 1:

- Input: nums = [1,4,3,2]
- Output: 4
- Explanation: All possible pairings (ignoring the ordering of elements) are:
 - \circ (1, 4), (2, 3) -> $\min(1, 4) + \min(2, 3) = 1 + 2 = 3$
 - \circ (1, 3), (2, 4) -> $\min(1, 3) + \min(2, 4) = 1 + 2 = 3$
 - \circ (1, 2), (3, 4) -> $\min(1, 2) + \min(3, 4) = 1 + 3 = 4$
 - O So the maximum possible sum is 4.

Example 2:

- **Input:** nums = [6,2,6,5,1,2]
- **Output:** 9
- Explanation: The optimal pairing is (2, 1), (2, 5), (6, 6). min(2, 1) + min(2, 5) + min(6, 6) = 1 + 2 + 6 = 9.

Constraints:

- 1 <= n <= 10⁴
- nums.length == 2 * n
- $-10^4 \le nums[i] \le 10^4$