The **pair sum** of a pair (a,b) is equal to a + b. The **maximum pair sum** is the largest **pair sum** in a list of pairs.

* For example, if we have pairs (1,5), (2,3), and (4,4), the **maximum pair sum** would be max(1+5, 2+3, 4+4) = max(6, 5, 8) = 8.

Given an array nums of **even** length n, pair up the elements of nums into n / 2 pairs such that:

* Each element of nums is in **exactly one** pair, and
* The **maximum pair sum** is **minimized**.

Return *the minimized* ***maximum pair sum*** *after optimally pairing up the elements*.

**Example 1:**

Input: nums = [3,5,2,3]  
Output: 7  
Explanation: The elements can be paired up into pairs (3,3) and (5,2).  
The maximum pair sum is max(3+3, 5+2) = max(6, 7) = 7.

**Example 2:**

Input: nums = [3,5,4,2,4,6]  
Output: 8  
Explanation: The elements can be paired up into pairs (3,5), (4,4), and (6,2).  
The maximum pair sum is max(3+5, 4+4, 6+2) = max(8, 8, 8) = 8.

**Constraints:**

* n == nums.length
* 2 <= n <= 105
* n is **even**.
* 1 <= nums[i] <= 105