1877. Minimize Maximum Pair Sum in Array

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User Accepted:	6136
User Tried:	6309
Total Accepted:	6240
Total Submissions:	8022
Difficulty:	Medium

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 <= 10^5`
- `n` is **even**.
- `1 <= nums[i] <= 10^5`

Discuss (https://leetcode.com/problems/minimize-maximum-pair-sum-in-array/discuss)

Java

```
class Solution {
    public int minPairSum(int[] nums) {

    }
}
```