Array Pair Sum

Given an integer array nums of 2n integer elements, Group these elements 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.

Input:

The first line is an integer, indicates size of the array.
Second line is the integer elements of the array.

Output:

Print maximized sum.

Constraints:

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

Sample:

No.	Sample Input	Sample Output
1	4 1 4 3 2	max_sum: 4
2	6 6 2 6 5 1 2	max_sum: 9
3	6 -2 -5 2 0 4 1	max_sum: -3