The Handshake Problem
—Space Complexity

The stack gows size `n` while push . Hence auxiliary space
taken here is $: O(n).$

Note: The recursive call handshake(n-1) is not the last operation before the function returns. The expression +(n-1) performs an addition after the recursion, violating the requirement for pure tail recursion. As tail recursion optimizes code space from O(n) to O(1) here code remains O(n) not O(1) .

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