The core.test.js file contains a set of tests for the functions defined in core.js. It uses the assert module to check whether the functions produce the expected results.

Here's a breakdown of the tests:

1. **isInteger:**
   * Checks if isInteger returns true for an integer and false for a non-integer.
2. **even:**
   * Verifies if the even function returns the correct array of even numbers.
3. **sumTo:**
   * Tests the sumTo function for both small and large numbers to ensure the correct sum is returned.
4. **recSumTo:**
   * Similar to sumTo but for the recursive version.
5. **factorial:**
   * Checks if factorial returns the correct factorial for different input values.
6. **isBinary:**
   * Verifies if isBinary returns true for powers of two and false otherwise.
7. **fibonacci:**
   * Tests if fibonacci returns the correct N-th Fibonacci number.
8. **getOperationFn:**
   * Ensures that getOperationFn returns a function and correctly applies the operation.
9. **sequence:**
   * Tests the sequence function with default values and with specified start and step values.
10. **deepEqual:**
    * Checks if deepEqual returns true for equal objects and false for non-equal objects. It includes tests for nested objects, arrays, functions, and NaN values.

mocha core.test.js