

❖ Fibonacci:

Explanation: -

The Fibonacci sequence is a series of numbers where each number is the sum of the two preceding ones, starting with 0 and 1, resulting in the sequence: 0, 1, 1, 2, 3, 5, 8, and so on. It has various applications in mathematics, computer science, and nature, such as modelling population growth and branching patterns in trees. The n-th Fibonacci number can be computed using recursive or iterative methods, with the recursive method being less efficient due to its exponential time complexity.

Time Complexity: - $O(2^n)$

Space Complexity: - $O(n)$



