

Observations on Tetranacci Implementations

1. Linear Recursion:

- Fast and works well.
- Execution time is always 1 ms (0.001 s) or less.
- Can handle large numbers up to 200 without issues.

2. Multiple Recursion:

- Works for small numbers.
- Becomes very slow as numbers get bigger.
- Tetranacci(40) took 419.5 seconds.
- Program stopped at 45 because it took too long (80 minutes or 4800 s).

3. Tail Recursion:

- Same performance as linear recursion.
- Execution time is 0 or 1 ms (0.001 s).
- Can handle big numbers up to 200 easily.

Conclusion:

- Linear and tail recursion have the same performance.
- Multiple recursion is too slow and not useful for big numbers.