**Recursion Analysis**

Fibonacci Sequence:

Table of Results:

|  |  |  |
| --- | --- | --- |
| N | Iterative Time | Recursive Time |
| 0 | 0.0 | 0.0 |
| 1 | 0.0 | 0.0 |
| 10 | 0.0 | 0.0 |
| 20 | 0.0 | 0.0 |
| 30 | 0.0 | 0.005 |
| 40 | 0.0 | 0.48 |
| 45 | 0.0 | 4.874 |

Chart of Results:

Fibonacci Iterative Time Complexity: O(N)

Fibonacci Recursive Time Complexity: O(2^N)

Towers of Hanoi:

Table of Results: ( This is when moves are printed )

|  |  |
| --- | --- |
| Disk Size | Time Elapsed |
| 5 | 0.0 |
| 10 | 0.01 |
| 15 | 0.09 |
| 20 | 2.285 |