

Software Requirements – Fibonacci Assignment

Assignment Prompt:

Part I.

Implement the Fibonacci function in both a recursive and iterative fashion. What's the runtime efficiency of each?

You can look up sample programs - there are many out there - but for your own experience, please type yours from scratch.

Turn in a chart of the results, with time on the Y axis, and input on the X axis, Please use nanosecond. `long startTime = System.nanoTime();` This chart must not be hand written.

Requirements

- Program must run the Fibonacci function via two independent methodologies: recursion and iteration.
- Program must calculate the runtime efficiency of each, by printing out elapsed run time in nanoseconds.
- Program must produce elapsed run time in the form of a visual aide, comparing the two methods.
- Software must be well documented (non-functional requirement).