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Software Development 1

CRN# 17056

Fibonaaci Documentation

**Program Requirements:**

-Run recursive and iterative Fibonaaci Functions.

-Display results for Fibonaaci nth number and time in nanoseconds as a line chart in JavaFX (X-axis Fibonaaci number, Y-axis time).

-Program is designed to run first 20 iterations of Fibonaaci sequence.

**Design Outline-**

-Implement JavaFX GUI layout requirements

-Call method to calculate Fibonaaci sequence

-Assign result to chart’s X and Y axis

-Display results in GUI using line chart displayed with Fibonaaci number, and time in nanoseconds.

**Design Diagram-**

GUI Implementation

Loop to Populate Data (method call)

Output Results Using GUI Line Chart

Create X & Y axis series

Create Line Chart