

Recursion vs Iteration

This program is used to create a comparison between recursive and iterative runtimes. This is showed by calculating Fibonacci numbers.

The recursion and iteration functions are immediately set up at the beginning using “fib()” as the name of the recursion version and “fibo()” as the iterative version.

These are designed to take a integer as an input and it will return the Fibonacci number at that position.

System.nanoTime() is used to create time stamps that will be used for measuring the runtimes. The list of numbers used for this program is 1, 6, 15, 30, 41, 45, 50. These numbers were picked as it should be enough to show the differences in runtime.

Final Data:

