Class Main

java.lang.Object
    Main

```
public class Main
extends Object
```

Module 5 Assignment to calculate Fibonacci number and time in nanoseconds

Author:

Nic Andrade

Constructor Summary

Constructors

Constructor	Description
`Main()`	

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method	Description
`static int`	`fibonacciIterative(Integer sequenceSpot)`	Utilized to calculate the Fibonacci sequence using a iterative method, and return time in nanoseconds to calculate.
`static int`	`fibonacciRecursive(Integer sequenceSpot)`	Utilized to calculate the Fibonacci sequence using a recursive method, and return time in nanoseconds to calculate.
`static void`	`main(String [] args)`	Main method used to calculate a Fibonacci number recursivily and iteratively, and time to calculate.
`static void`	`outputText(String sequenceType, long value, long totalTime)`	Generates text output of values from method calls
`static long`	`timer(long startTime)`	Used to calculate the time in nanoseconds between a passed start time and the time the method is called.

Methods inherited from class java.lang.Object

clone , equals , finalize , getClass , hashCode , notify , notifyAll , toString , wait , wait , wait

Constructor Details

Main

```
public Main()
```

Method Details

main

```
public static void main(String [] args)
```

Main method used to calculate a Fibonacci number recursivily and iteratively, and time to calculate.

Parameters:

`args` - Strings passed to the main.

fibonacciRecursive

```
public static int fibonacciRecursive(Integer  sequenceSpot)
```

Utilized to calculate the Fibonacci sequence using a recursive method, and return time in nanoseconds to calculate.

Parameters:

`sequenceSpot` - Value of what position in the Fibonacci sequence you want to know the value of.

Returns:

Fibonacci value in the sequence spot requested

fibonacciIterative

```
public static int fibonacciIterative(Integer  sequenceSpot)
```

Utilized to calculate the Fibonacci sequence using a iterative method, and return time in nanoseconds to calculate.

Parameters:

`sequenceSpot` - Value of what position in the Fibonacci sequence you want to know the value of.

Returns:

Fibonacci value in the sequence spot requested

timer

```
public static long timer(long startTime)
```

Used to calculate the time in nanoseconds between a passed start time and the time the method is called.

Parameters:

`startTime` - Initial value of time to be used

Returns:

Duration in nanoseconds the timer has been running.

outputText

```
public static void outputText(String  sequenceType,
                              long value,
                              long totalTime)
```

Generates text output of values from method calls

Parameters:

`sequenceType` - String value used to identify call type

`value` - Long value of number in Fibonacci sequence

`totalTime` - Long value of total time in nanoseconds it took to calculate Fibonacci number