

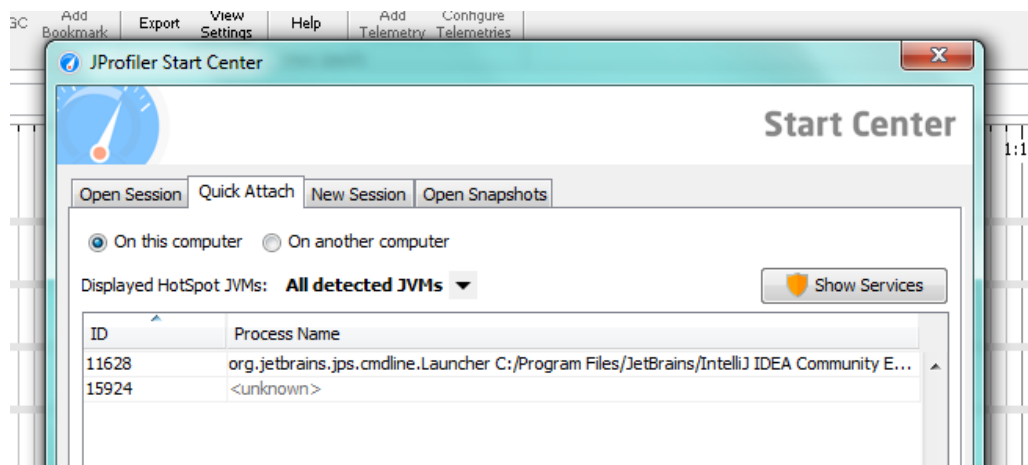
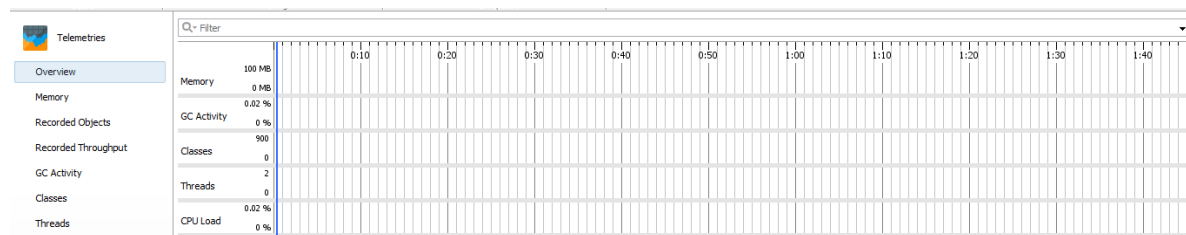
Hoja de trabajo 3

En el main se fue cambiando la línea 54 para ir probando cada sort.

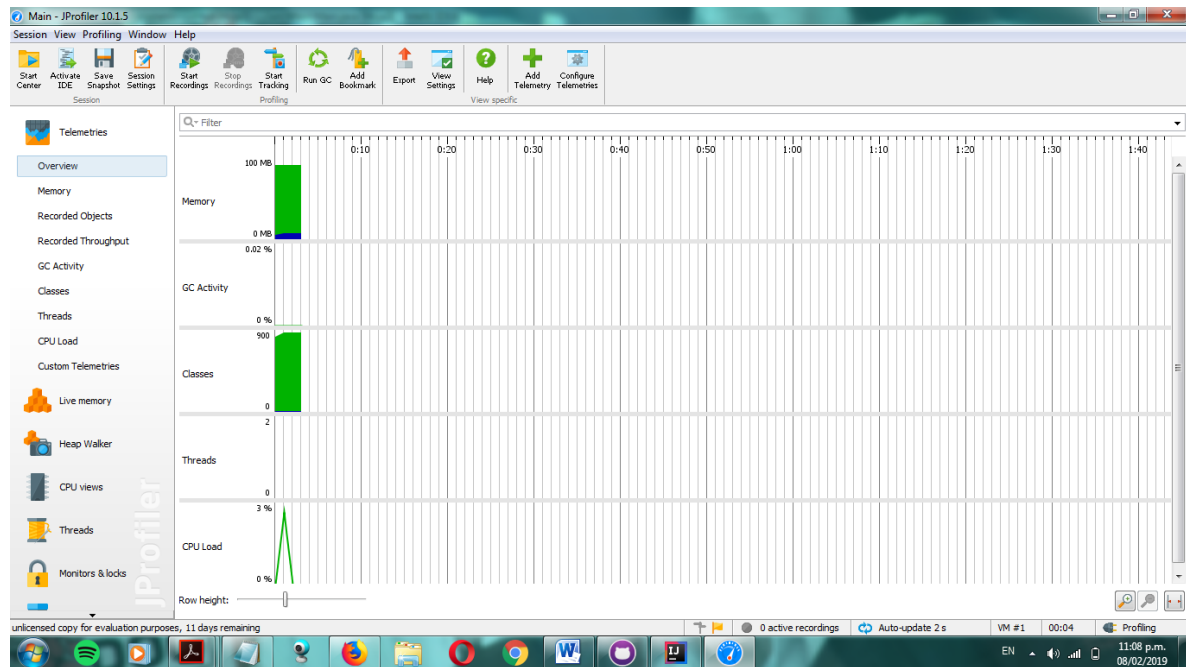
Gnome Sort

```
"C:\Program Files\Java\jdk1.8.0_111\bin\java.exe" ...
JProfiler> Protocol version 59
JProfiler> JVMTI version 1.1 detected.
JProfiler> Java 8 detected.
JProfiler> 64-bit library
JProfiler> Listening on port: 33720.
JProfiler> Enabling native methods instrumentation.
JProfiler> Can retransform classes.
JProfiler> Can retransform any class.
JProfiler> Native library initialized
JProfiler> VM initialized
JProfiler> Waiting for a connection from the JProfiler GUI ...
JProfiler> Using instrumentation
JProfiler> Time measurement: elapsed time
JProfiler> CPU profiling enabled
sorted gnome

Process finished with exit code 0
```



Radix

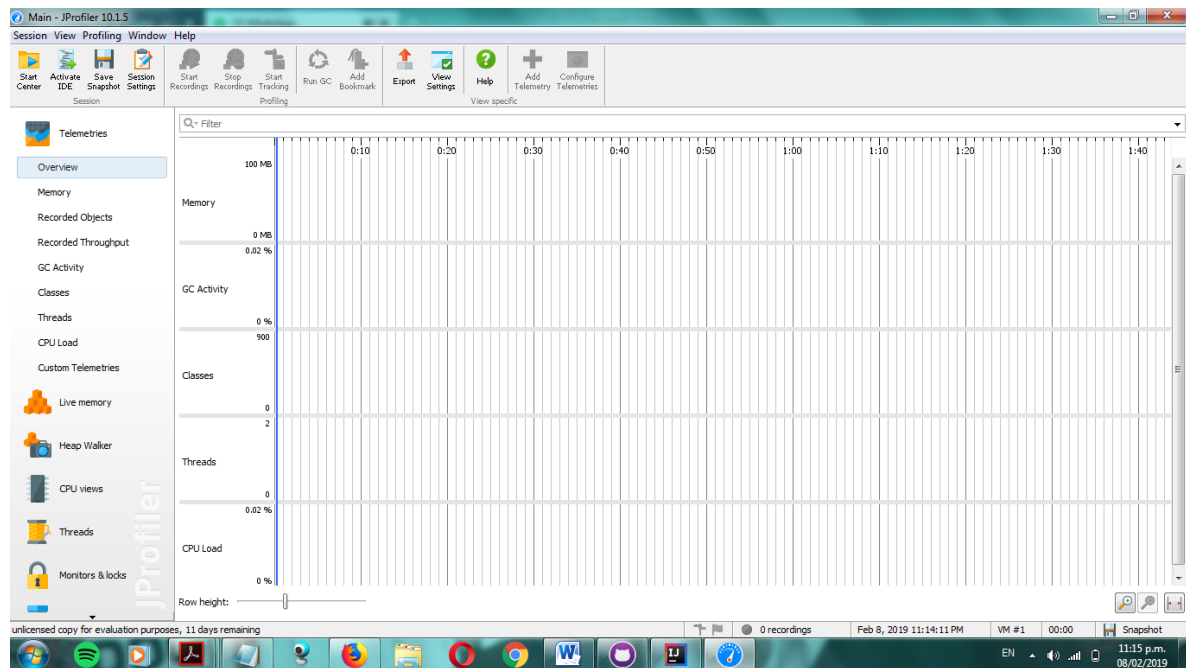


The screenshot shows the IntelliJ IDEA interface with the JProfiler console output. The console displays the following log messages:

```
TC:\Program Files\Java\jdk1.8.0_111\bin\java.exe ...
JProfiler: Protocol version 59
JProfiler: JVM TI version 1.1 detected.
JProfiler: Java 8 detected.
JProfiler: 64-bit library
JProfiler: Listening on port: 34140.
JProfiler: Enabling native methods instrumentation.
JProfiler: Can retransform classes.
JProfiler: Can retransform any class.
JProfiler: Native library initialized
JProfiler: VM initialized
JProfiler: Waiting for a connection from the JProfiler GUI ...
JProfiler: Using instrumentation
JProfiler: Time measurement: elapsed time
JProfiler: CPU profiling enabled
sorted Radix
JProfiler: Keeping VM alive until frontend disconnects.
```

A 'Cannot Run Git' error message is visible in the bottom right corner, stating 'File not found: git.exe' with links to 'Download' and 'Configure...'.

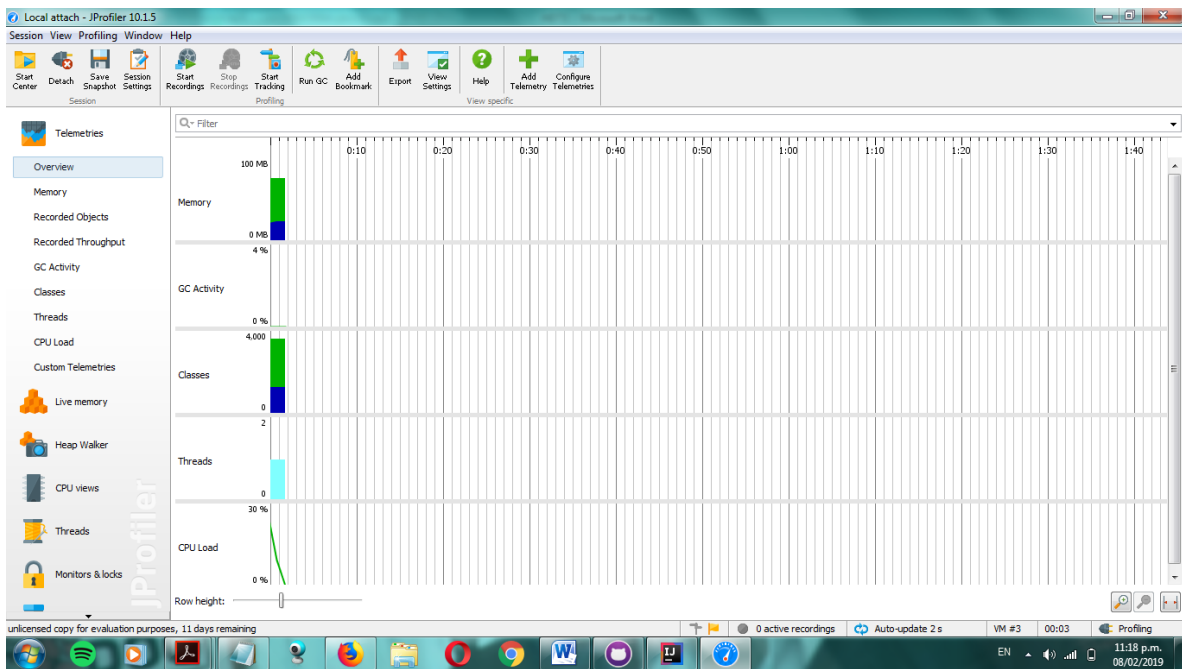
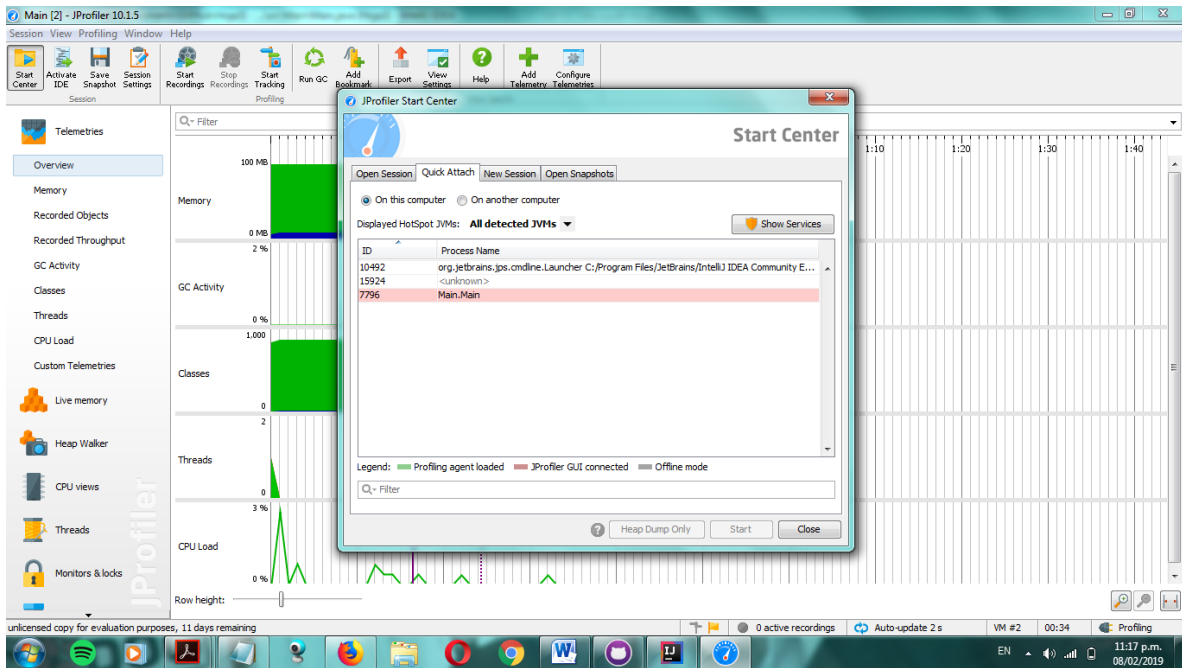
QuickSort

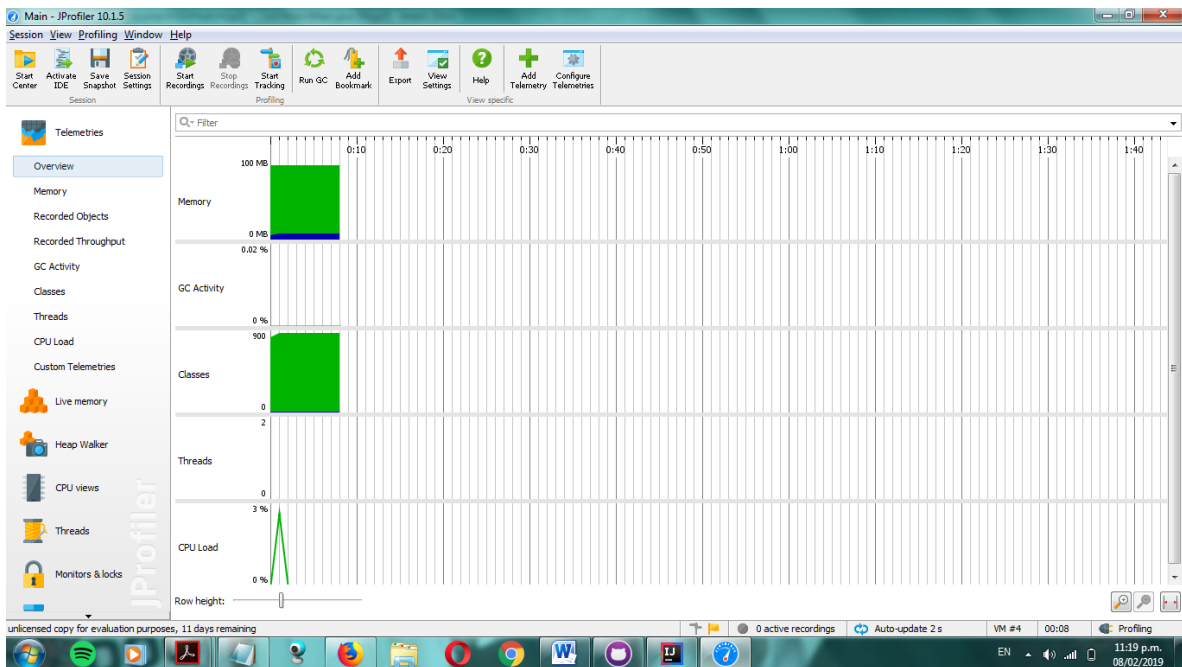
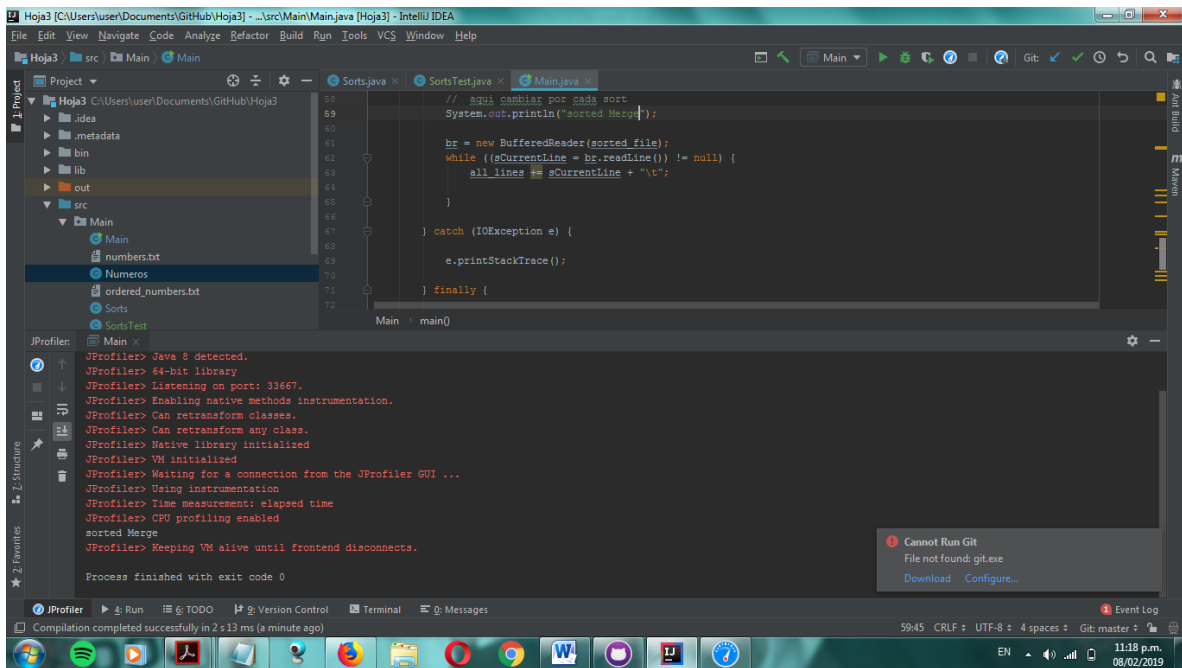


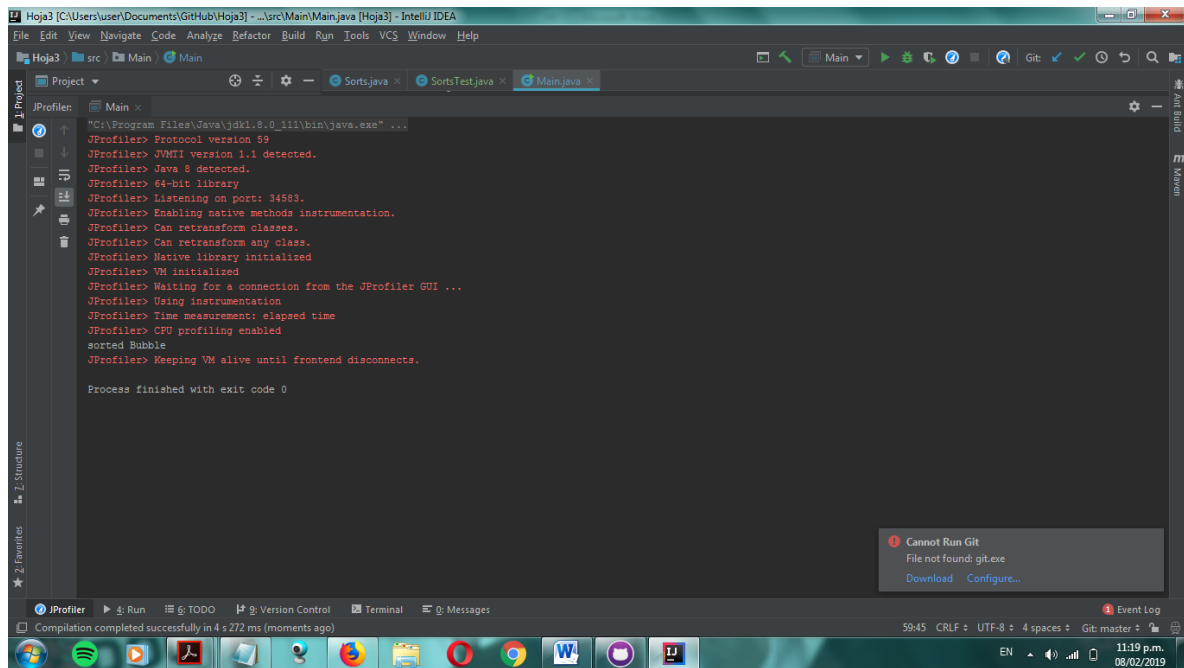
```
"C:\Program Files\Java\jdk1.8.0_111\bin\java.exe" ...
JProfiler> Protocol version 59
JProfiler> JVM version 1.1 detected.
JProfiler> Java 8 detected.
JProfiler> 64-bit library
JProfiler> Listening on port: 38129.
JProfiler> Enabling native methods instrumentation.
JProfiler> Can retransform classes.
JProfiler> Can retransform any class.
JProfiler> Native library initialized
JProfiler> VM initialized
JProfiler> Waiting for a connection from the JProfiler GUI ...
JProfiler> Using instrumentation
JProfiler> Time measurement: elapsed time
JProfiler> CPU profiling enabled
sorted Quick
Process finished with exit code 0
```

The screenshot shows the IntelliJ IDEA IDE with the JProfiler console output. The console displays the JProfiler startup sequence, including protocol version 59, JVM version 1.1, and Java 8 detected. The output also shows the JProfiler GUI initialization and the execution of the 'sorted Quick' method. A notification at the bottom right states 'Cannot Run Git' with a message 'File not found: git.exe' and buttons for 'Download' and 'Configure...'.

MergeSort and BubbleSort







GRAFICAS

MergeSort: Complejidad de $O(n \log(n))$

BubbleSort: Complejidad $O(n^2)$

GnomeSort: Complejidad $O(n)$

RadixSort: Complejidad $O(nC)$

QuickSort: Complejidad de $O(n \log(n))$