

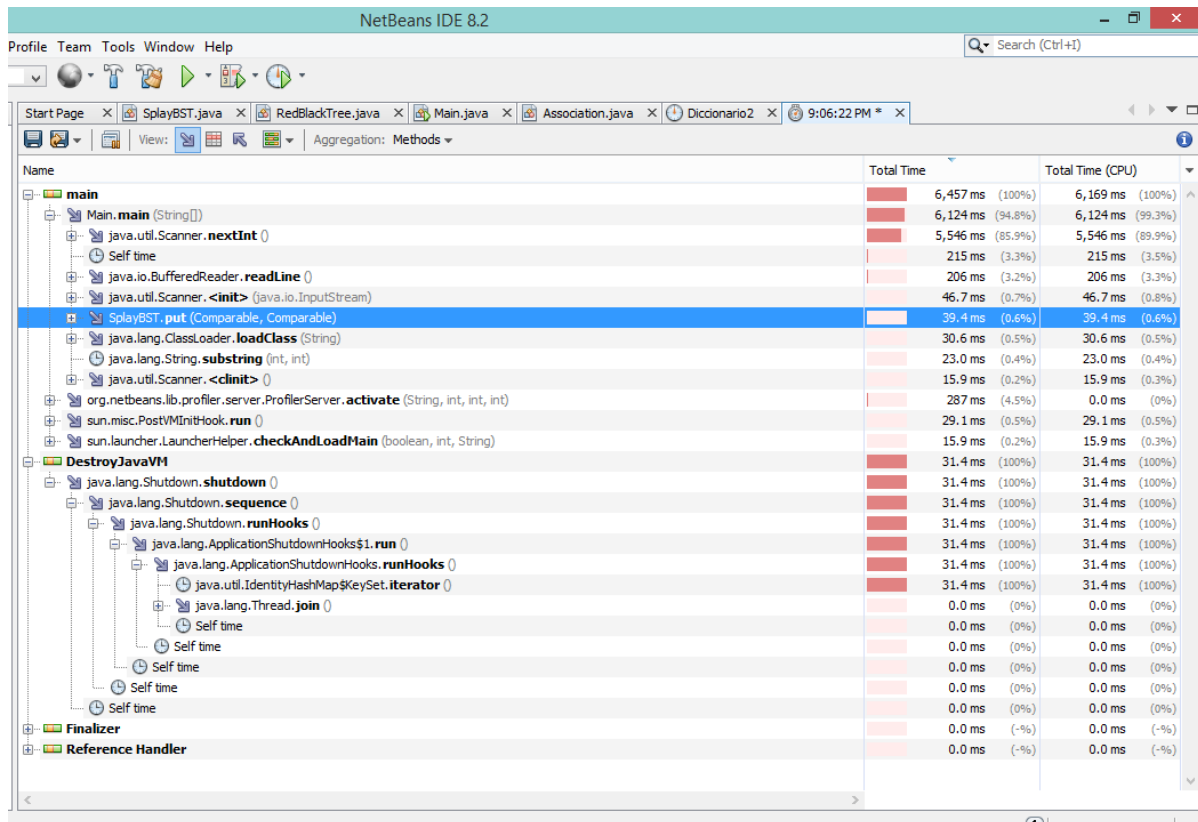
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Hoja #9: Profiler y JunitTest

SplayTree

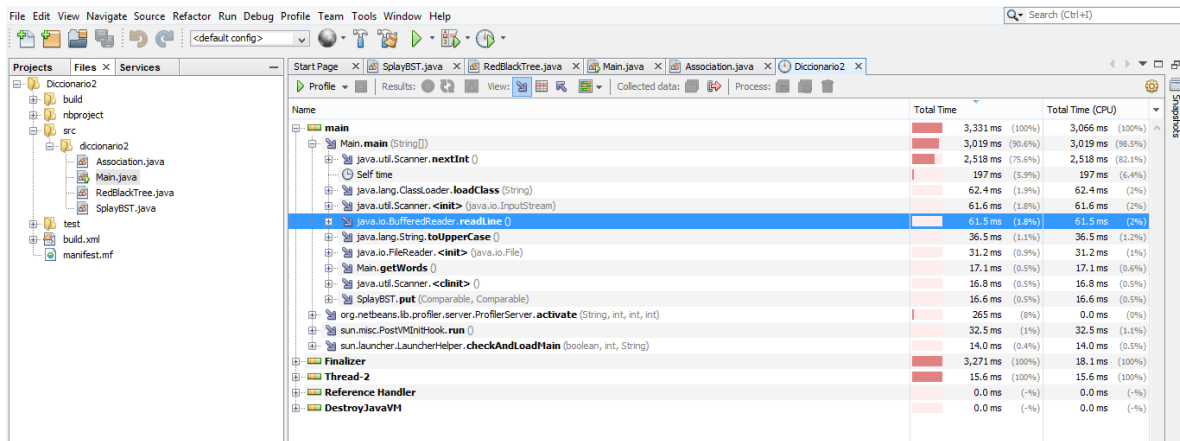
- Tiempo de formación del arbol



Name	Total Time	Total Time (CPU)
main		
Main.main (String[])	6,457 ms (100%)	6,169 ms (100%)
java.util.Scanner.nextInt ()	6,124 ms (94.8%)	6,124 ms (99.3%)
Self time	5,546 ms (85.9%)	5,546 ms (89.9%)
java.io.BufferedReader.readLine ()	215 ms (3.3%)	215 ms (3.5%)
java.util.Scanner.<init> (java.io.InputStream)	206 ms (3.2%)	206 ms (3.3%)
SplayBST.put (Comparable, Comparable)	46.7 ms (0.7%)	46.7 ms (0.8%)
java.lang.ClassLoader.loadClass (String)	39.4 ms (0.6%)	39.4 ms (0.6%)
java.lang.String.substring (int, int)	30.6 ms (0.5%)	30.6 ms (0.5%)
java.util.Scanner.<clinit> ()	23.0 ms (0.4%)	23.0 ms (0.4%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	15.9 ms (0.2%)	15.9 ms (0.3%)
sun.misc.PostVMInitHook.run ()	287 ms (4.5%)	0.0 ms (0%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	29.1 ms (0.5%)	29.1 ms (0.5%)
DestroyJavaVM	15.9 ms (0.2%)	15.9 ms (0.3%)
java.lang.Shutdown.shutdown ()	31.4 ms (100%)	31.4 ms (100%)
java.lang.Shutdown.sequence ()	31.4 ms (100%)	31.4 ms (100%)
java.lang.Shutdown.runHooks ()	31.4 ms (100%)	31.4 ms (100%)
java.lang.ApplicationShutdownHooks\$1.run ()	31.4 ms (100%)	31.4 ms (100%)
java.lang.ApplicationShutdownHooks.runHooks ()	31.4 ms (100%)	31.4 ms (100%)
java.util.IdentityHashMap\$KeySet.iterator ()	31.4 ms (100%)	31.4 ms (100%)
java.lang.Thread.join ()	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Self time	0.0 ms (0%)	0.0 ms (0%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)

T= 39.4 ms

- Tiempo de traducción

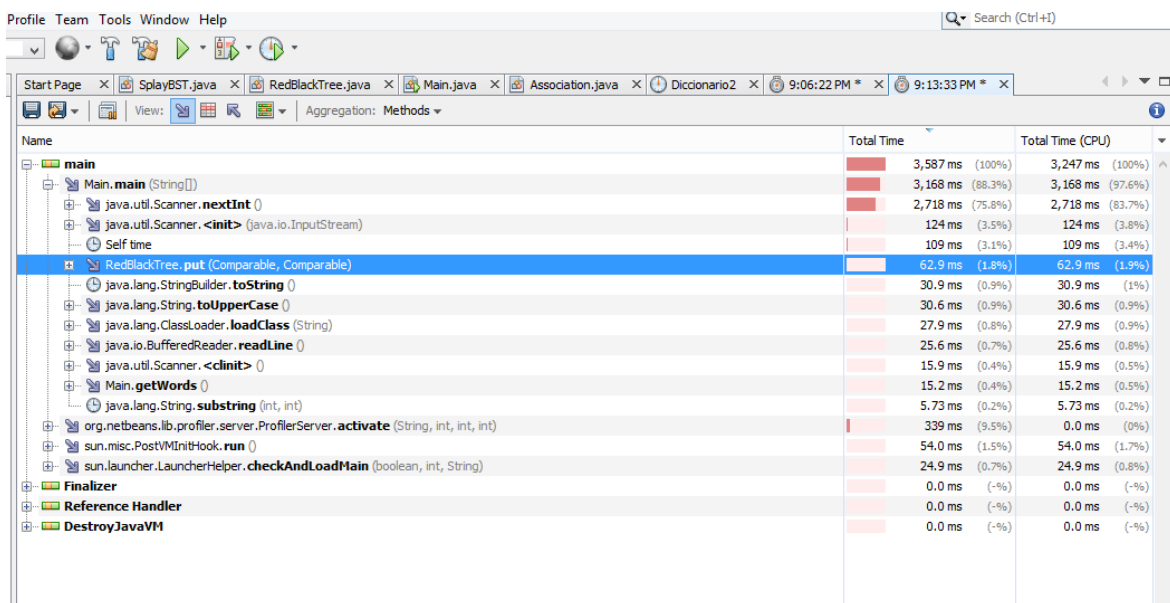


Name	Total Time	Total Time (CPU)
main	3,331 ms (100%)	3,066 ms (100%)
Main.main (String[])	3,019 ms (90.6%)	3,019 ms (98.5%)
java.util.Scanner.nextInt ()	2,518 ms (75.6%)	2,518 ms (82.1%)
Self time	197 ms (5.9%)	197 ms (6.4%)
java.lang.ClassLoader.loadClass (String)	62.4 ms (1.9%)	62.4 ms (2%)
java.util.Scanner.<init> (java.io.InputStream)	61.6 ms (1.8%)	61.6 ms (2%)
java.io.BufferedReader.readLine ()	61.5 ms (1.8%)	61.5 ms (2%)
java.lang.String.toUpperCase ()	36.5 ms (1.1%)	36.5 ms (1.2%)
java.io.FileReader.<init> (java.io.File)	31.2 ms (0.9%)	31.2 ms (1%)
Main.getWords ()	17.1 ms (0.5%)	17.1 ms (0.6%)
java.util.Scanner.<clinit> ()	16.8 ms (0.5%)	16.8 ms (0.5%)
SplayBST.put (Comparable, Comparable)	16.6 ms (0.5%)	16.6 ms (0.5%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	265 ms (8%)	0.0 ms (0%)
sun.misc.PostVMInitHook.run ()	32.5 ms (1%)	32.5 ms (1.1%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	14.0 ms (0.4%)	14.0 ms (0.5%)
Finalizer	3,271 ms (100%)	18.1 ms (100%)
Thread-2	15.6 ms (100%)	15.6 ms (100%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

T= 61.5 ms

Red Black Tree

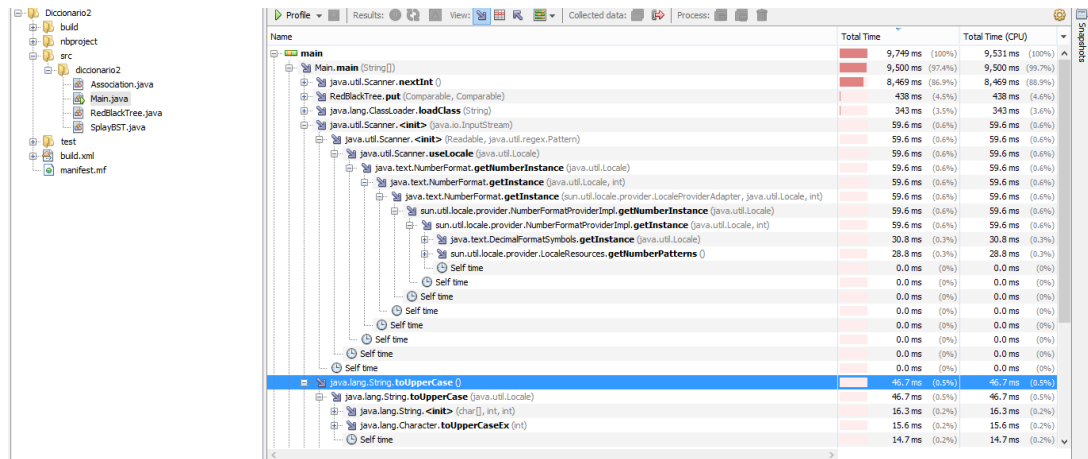
- Tiempo de formación del arbol



Name	Total Time	Total Time (CPU)
main	3,587 ms (100%)	3,247 ms (100%)
Main.main (String[])	3,168 ms (88.3%)	3,168 ms (97.6%)
java.util.Scanner.nextInt ()	2,718 ms (75.8%)	2,718 ms (83.7%)
java.util.Scanner.<init> (java.io.InputStream)	124 ms (3.5%)	124 ms (3.8%)
Self time	109 ms (3.1%)	109 ms (3.4%)
RedBlackTree.put (Comparable, Comparable)	62.9 ms (1.8%)	62.9 ms (1.9%)
java.lang.StringBuilder.toString ()	30.9 ms (0.9%)	30.9 ms (1%)
java.lang.String.toUpperCase ()	30.6 ms (0.9%)	30.6 ms (0.9%)
java.lang.ClassLoader.loadClass (String)	27.9 ms (0.8%)	27.9 ms (0.9%)
java.io.BufferedReader.readLine ()	25.6 ms (0.7%)	25.6 ms (0.8%)
java.util.Scanner.<clinit> ()	15.9 ms (0.4%)	15.9 ms (0.5%)
Main.getWords ()	15.2 ms (0.4%)	15.2 ms (0.5%)
java.lang.String.substring (int, int)	5.73 ms (0.2%)	5.73 ms (0.2%)
org.netbeans.lib.profiler.server.ProfilerServer.activate (String, int, int, int)	339 ms (9.5%)	0.0 ms (0%)
sun.misc.PostVMInitHook.run ()	54.0 ms (1.5%)	54.0 ms (1.7%)
sun.launcher.LauncherHelper.checkAndLoadMain (boolean, int, String)	24.9 ms (0.7%)	24.9 ms (0.8%)
Finalizer	0.0 ms (-%)	0.0 ms (-%)
Reference Handler	0.0 ms (-%)	0.0 ms (-%)
DestroyJavaVM	0.0 ms (-%)	0.0 ms (-%)

T= 62.9 ms

- Tiempo de traducción



$T=46.7 \text{ ms}$

JUNIT TEST

The screenshot displays an IDE with a Java class `BinaryTreeTest` and its execution results.

Code Snippet:

```
public class BinaryTreeTest {  
    // ...  
    @Test  
    public void findInOrder() {  
        String found= "yes";  
        Node node= null;  
        assertNotSame(found,node);  
    }  
    @Test  
    public void traverseInOrder() {  
        Node node= null;  
        if (node==null){  
            boolean atRoot= true;  
            boolean sequit=true;  
            assertTrue( condition: atRoot==sequit);  
        }  
    }  
}
```

Execution Output:

BinaryTreeTest.add x

Tests passed: 1 of 1 test - 16ms

BinaryTreeTest 16ms "C:\Program Files\Java\jdk-10.0.1\bin\java.exe" -ea -Didea.test.cyclic.buffer.size=1048576 "--javaagent:C:\Users\Andrea Paniagua\Desktop\Intelli
add 16ms
Process finished with exit code 0

Bottom Bar:

Messages ▶ Run ⚙️ TODO 📄 Terminal

passed: 1 (4 minutes ago)

37:2 CRLF : UTF-8 : 4 spaces

1 Event L

