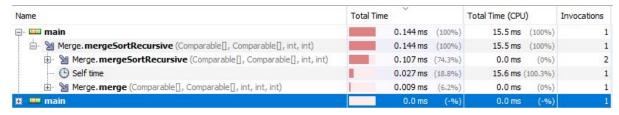
- \* Universidad del Valle de Guatemala
- \* Estructuras de Datos
- \* Ing. Douglas Barrios
- \*Amado Garcia 181460 / Juan Fernando De Leon Quezada 17822

#### Pruebas con 10 datos

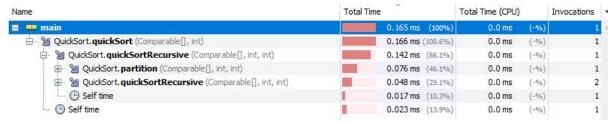
### **GNOME**

Name	Total Time	Total Time (CPU)		Invocations
💻 🚥 main	3.76 ms (100°	6) 0.0 ms	(-%)	1
⊕ Snome.gnomeSort (Comparable[])	3.76 ms (100°	6) 0.0 ms	(-%)	1
( Self time	3.69 ms (98.29	6) 0.0 ms	(-%)	1
Numbers.compareTo (Object)	0.069 ms (1.8°	6) 0.0 ms	(-%)	65

### **MERGE**



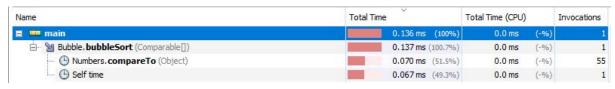
### **QUICK**



### **RADIX**



#### **BUBBLE**



## Resultados desordenados

Cantidad de números ordenado s	10	100	1000	3000
Gnome	3.76ms	23.8ms	285ms	1831ms
Merge	0.144ms	1.1ms	4.75ms	18.1ms
Quick	0.166ms	0.506ms	7.64ms	41.2ms
Radix	2.3ms	8.68ms	578ms	3518ms
Bubble	0.137ms	1.75ms	263ms	1794ms

## Valores Teóricos

Gnome	O(n*n) -> 100, 10000, 1000000, 9000000
Merge	O(nLogn) -> 10, 200, 3000, 10431.36
Quick	O(n*n) -> 100, 10000, 1000000, 9000000
Radix	O(kn) k = número de bits (int = 32) -> 320, 3200, 32000, 96000
Bubble	O(n*n) -> 100, 10000, 1000000, 9000000



# **Resultados Ordenados**

Sorts	10	100	1000	3000
Gnome	0.067ms	3.87ms	17.4ms	20ms
Merge	0.114ms	14.6ms	6.64ms	13.2ms
Quick	17.2ms	3.8ms	128ms	1744ms
Radix	3.48ms	8.68ms	399ms	4415ms
Bubble	0.087ms	4.17ms	180ms	1720ms



