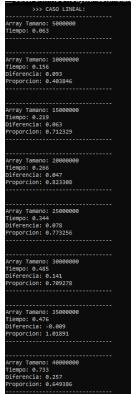
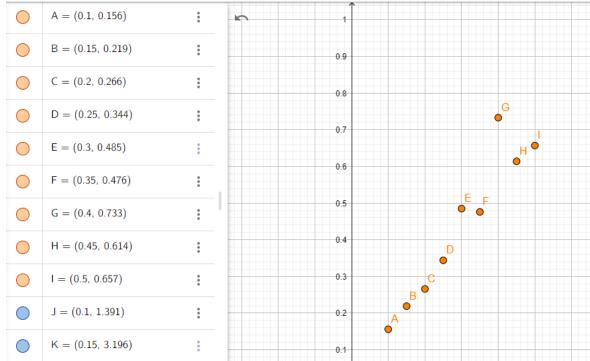
## **InsertionSort:**

• Ω(n) : Caso Lineal

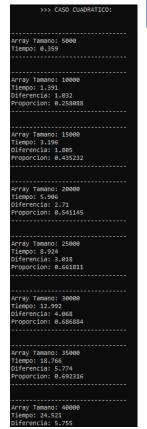
Escala cantidadElementos n: n/10000000 (cantidadElementos, tiempo)



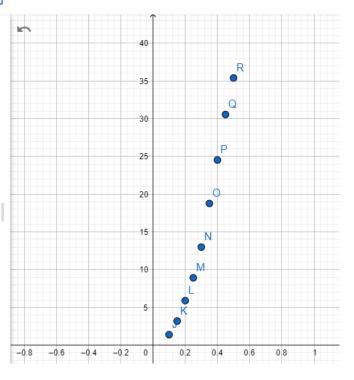


## • Caso $O(n^2)$ : Peor Caso

Escala cantidadElementos n:n/100000 (cantidadElementos, tiempo)



	J = (0.1, 1.391)	:
	K = (0.15, 3.196)	*
	L = (0.2, 5.906)	:
	M = (0.25, 8.924)	*
	N = (0.3, 12.992)	:
	O = (0.35, 18.766)	:
	P = (0.4, 24.521)	*
	Q = (0.45, 30.544)	:
	R = (0.5, 35.388)	*
+	Input	

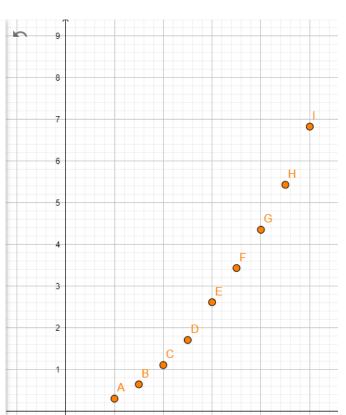


# Quicksort:

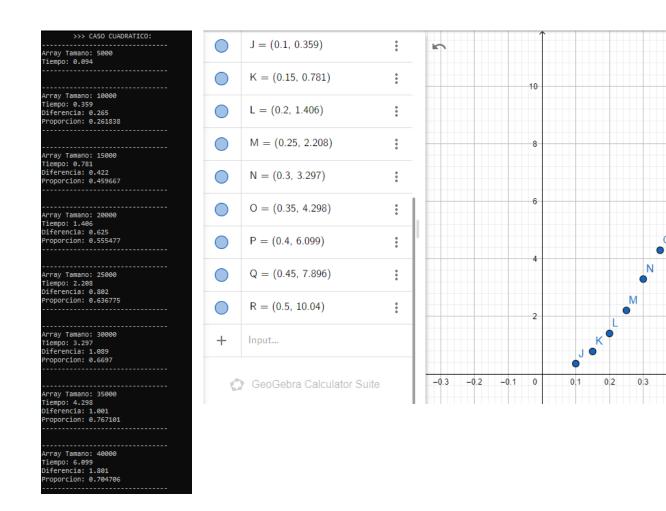
# • $\Omega(nlog(n))$ : Caso Logaritmico

>>> CASO LOGARITMICO:
Array Tamano: 50000
Tiempo: 0.078
Array Tamano: 100000
Tiempo: 0.297
Diferencia: 0.219
Proporcion: 0.262626
Array Tamano: 150000
Tiempo: 0.64
Diferencia: 0.343
Proporcion: 0.464062
Array Tamano: 200000
Tiempo: 1.102
Diferencia: 0.462
Proporcion: 0.580762
Array Tamano: 250000
Tiempo: 1.703
Diferencia: 0.601
Proporcion: 0.647093
Array Tamano: 300000
Tiempo: 2.612
Diferencia: 0.909
Proporcion: 0.651991
Array Tamano: 350000
Tiempo: 3.432
Diferencia: 0.82
Proporcion: 0.761072
Array Tamano: 400000
Tiempo: 4.352
Diferencia: 0.92
Proporcion: 0.788603

	A = (0.1, 0.297)	:	
	B = (0.15, 0.64)	:	
0	C = (0.2, 1.102)	:	
0	D = (0.25, 1.703)	:	
0	E = (0.3, 2.612)	:	
0	F = (0.35, 3.432)	:	
0	G = (0.4, 4.352)		l
	H = (0.45, 5.431)	:	
	I = (0.5, 6.828)	:	
0	J = (0.1, 0.359)	:	
0	K = (0.15, 0.781)		
	L = (0.2, 1.406)	:	



#### • Caso $O(n^2)$ : Peor Caso



R

0.6

Q

Ρ

0