Student information Date Number of	session	
UO: 277921 2/3/2021 3.2		
	Escuela de Ingeniería	

Name: Rosa

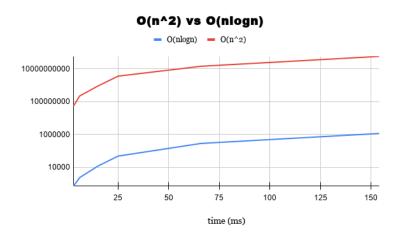


Informática

Activity 1. Counting inversions

file	t O(n2)	t O(nlogn)	t O(n2)/t O(nlogn)	n inversions
Ranking1.txt				14.074.466
Ranking2.txt	750	3	250	56.256.142
Ranking3.txt	2410	6	401.6666667	225.312.650
Ranking4.txt	12079	15	805.2666667	903.869.574
Ranking5.txt	49160	25	1966.4	3.613.758.061
Ranking6.txt	289478	66	4386.030303	14.444.260.441
Ranking7.txt	1168172	154	7585.532468	57.561.381.803

The results are the expected. As we can see on the fourth column; t O(n2)/t O(nlogn), the result of the division is always greater than 1 and it keeps increasing with the time, that means that the algorithm of the 'Inversions' class is always better than the one from the 'InversionsQuadratic' class, as expected because of the complexities.



Also, on this graph comparing both complexities, we can see that the tendencies and values are the expected.