Insertion Sort Time Complexity Analysis

Input(N)	Best Case(O(n))	Worst Case(O(n^2))	Average Case(O(n^2))
5000	0.000020	0.050443	0.031497
10000	0.000030	0.203355	0.113476
15000	0.000044	0.457167	0.231376
20000	0.000058	0.859096	0.458525
25000	0.000075	1.287831	0.663684
30000	0.000084	1.854924	0.944192
35000	0.000108	2.490706	1.269748
40000	0.000113	3.224608	1.618069
45000	0.000128	4.113266	2.064908
50000	0.000142	5.056185	2.522603

Insertion sort time complexity analysis