Text

Description automatically generated

Comparison:

Bubble Sort: T(n) = (n-1)2 ∈ O(n2)

Insertion Sort: T(n) = n2/2 ∈ O(n2)

Exchange Sort: T(n) = n2/2 ∈ O(n2)

Selection Sort: T(n) = n2/2 ∈ O(n2)

The time consumption of these four algorithms is the same, O(n2).