Algorithm 1 Insertion Sort

```
1: procedure INSERT-SORT(A)                                  ▷ Worst − Case : θ(n²)
2:     for j ← 2 to A.length do
3:         key ← A[j]
4:         i ← j − 1
5:         while i ≥ 0 ∧ A[i] > key do
6:             A[i+1] = A[i]
7:             i ← i − 1
8:         end while
9:         A[i+1]=key
10:    end for
11:    return A
12: end procedure
```

Algorithm 2 Selection Sort

```
1: procedure SELECT-SORT(A)                                  ▷ Worst − Case : θ(n²)
2:     for i ← 1 to A.length − 1 do
3:         min ← i
4:         for j ← i + 1 to A.length do
5:             if A[j] < A[min] then
6:                 min ← j
7:             end if
8:         end for
9:         key ← A[i]
10:        A[i] ← A[min]
11:        A[min] ← key
12:    end for
13:    return A
14: end procedure
```