Algorithm 1 Insertion Sort(Non-increasing order)

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1   **for** $j = 2$ **to** $A.length$

2       $key = A[j];$

3       $i = j - 1;$

4   **while** $(j > 0$ **and** $A[i] < key)$

5           $A[i + 1] = A[i];$

6           $i - -;$

7       $A[i + 1] = key;$