

Algorithm 1: InsertionSort

Input: Input

Output: Output

```
1 Procedure InsertionSort(A)
2   for  $i \leftarrow 1$  to  $n - 1$  do
3      $j \leftarrow i$ 
4     while  $j > 0 \wedge A[j - 1] > A[j]$  do
5       swap( $A[j]$ ,  $A[j-1]$ )
6        $j \leftarrow j - 1$ 
7     end
8   end
```