

```

INSERTION-SORT( $A$ )
1  for  $j \leftarrow 2$  to  $\text{length}[A]$ 
2      do  $\text{key} \leftarrow A[j]$ 
3           $\triangleright$  Insert  $A[j]$  into the sorted sequence  $A[1 \dots j-1]$ .
4           $i \leftarrow j-1$ 
5          while  $i > 0$  and  $A[i] > \text{key}$ 
6              do  $A[i+1] \leftarrow A[i]$ 
7                   $i \leftarrow i-1$ 
8           $A[i+1] \leftarrow \text{key}$ 

```