



Insertion sort

“pseudocode”

```
INSERTION-SORT ( $A, n$ )     $\triangleright A[1 \dots n]$ 
  for  $j \leftarrow 2$  to  $n$ 
    do  $key \leftarrow A[j]$ 
       $i \leftarrow j - 1$ 
      while  $i > 0$  and  $A[i] > key$ 
        do  $A[i+1] \leftarrow A[i]$ 
           $i \leftarrow i - 1$ 
       $A[i+1] = key$ 
```