

Algorithm: BubbleSort

Input: A list of integers A with n elements

Output: A ordered from smallest to largest

```
1 Procedure BubbleSort( $A$ )
2   if  $n < 2$  then
3     return  $A$ 
4   for  $i \leftarrow 0$  to  $n - 2$  do
5     for  $j \leftarrow 0$  to  $n - i - 2$  do
6       if  $A[j] > A[j+1]$  then
7         swap  $A[j]$  with  $A[j+1]$ 
8     end
9   end
10  return  $A$ 
```