

## Algorithm 1: BubbleSort

**Input:** Input

**Output:** Output

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