
Algorithm 1 Bubble Sort

```
1: procedure BUBBLESORT( $A, n$ )  
2:   for  $i \leftarrow 0$  to  $n - 1$  do  
3:     for  $j \leftarrow 0$  to  $n - 1 - i$  do  
4:       if  $A[j] > A[j + 1]$  then  
5:         Swap  $A[j]$  and  $A[j + 1]$   
6:       end if  
7:     end for  
8:   end for  
9: end procedure
```
