Algorithm 1 insertionsort

```
1: function Insertionsort(A, n)
       for i = 2 to n do
3:
          key = A[i]
                                                                \triangleright Insert A[i] into the sorted subarray A[1:i-1]
4:
          j = i - 1
5:
          while j > 0 and A[j] > key do
6:
              A[j+1] = A[j]
7:
          j = j - 1 end while
8:
9:
          A[j+1] = key
10:
       end for
11:
12: end function
```