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Algorithm: BucketSort
   Input: A list of integers A with n elements
   Output: A ordered from smallest to largest
   Procedure BucketSort(A)
       if n < 2 then
           return A
       B \leftarrow Array of N empty lists
       for i \leftarrow 0 to n-1 do
           associate k with A[i]
           append A[i] to B[k]
       end
       for i \leftarrow 0 to |B| - 1 do
           B[i] \leftarrow BubbleSort(B[i])
10
       end
11
       i \leftarrow 0
12
       for k \leftarrow 0 to N do
13
           for x \in B[k] do
14
              A[j] \leftarrow x
15
              j \leftarrow j + 1
16
           end
17
       end
18
       return A
19
```