

BUCKET-SORT(A, n)

 let $B[0 \dots n - 1]$ be a new array

for $i = 0$ **to** $n - 1$

 make $B[i]$ an empty list

for $i = 1$ **to** n

 insert $A[i]$ into list $B[\lfloor n \cdot A[i] \rfloor]$

for $i = 0$ **to** $n - 1$

 sort list $B[i]$ with insertion sort

 concatenate lists $B[0], B[1], \dots, B[n - 1]$ together in order

return the concatenated lists