

Bucket Sort

BUCKET-SORT(A)

- 1: let $B[0 \dots n - 1]$ be a new array
- 2: $n = A.length$
- 3: **for** $i = 0$ to $n - 1$ **do**
- 4: make $B[i]$ an empty list
- 5: **for** $i = 1$ to n **do**
- 6: insert $A[i]$ into list $B[\lfloor n * A[i] \rfloor]$
- 7: **for** $i = 0$ to $n - 1$ **do**
- 8: sort list $B[i]$ with insertion sort
- 9: concatenate the lists $B[0], B[1], \dots, B[n - 1]$ together in order