

BUCKET-SORT(A, n)

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