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ALGORITHM Comparison Counting Sort(A[0..n-1])

//Sorts an array by comparison counting
//Input: An array A[0..n-1] of orderable elements
//Output: Array S[0..n-1] of A's elements sorted in nondecreasing order
for i \leftarrow 0 to n-1 do Count[i] \leftarrow 0
for i \leftarrow 0 to n-2 do

for j \leftarrow i+1 to n-1 do

if A[i] < A[j]
Count[j] \leftarrow Count[j] + 1
else Count[i] \leftarrow Count[i] + 1
for i \leftarrow 0 to n-1 do S[Count[i]] \leftarrow A[i]
return S
```