Counting Sort

```
for i = 0 to k-1 do C[i] }\leftarrow
for j = 1 to n do C[A[j]] \leftarrow C[A[j]] + 1
t}\leftarrow
for i = 0 to k-1 do
    for j = 1 to C[i] do
        t}\leftarrow\textrm{t}+
        B[t]}\leftarrow 
    end for
end for
```

```
for i = 0 to k-1 do C[i] }\leftarrow
for j = 1 to n do C[A[j]] \leftarrow C[A[j]] + 1
for i = 1 to k-1 do C[i] \leftarrow C[i-1] + C[i]
for j = n downto 1 do
    B[C[A[j]]]}\leftarrowA[j
    C[A[j]]}\leftarrowC[A[j]] - 1
end for
```

