

ALGORITHM *SelectSort* ($A[0..n-1]$)

// Selection sort algorithm

for $i \leftarrow 0$ **to** $n-1$ **do**

$SmallSub = i$

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

if $A[j] < A[SmallSub]$ $\left. \begin{array}{l} \\ SmallSub = j \end{array} \right\} O(1)$ $\left. \begin{array}{l} \\ \end{array} \right\} O(n)$ $\left. \begin{array}{l} \\ \end{array} \right\} O(n^2)$

$temp = A[i]$

$A[SmallSub] = temp$

return A