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 $A\,[\,j\,] < A\,[\,SmallSub\,]$
            $SmallSub = j$
    $temp = A\,[\,i\,]$
    $A\,[\,SmallSub\,] = temp$
return A