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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  $A$ 

```