
Algorithm 3.1.42 Find the least element in a list and move it to the front.

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1: procedure SELECTION SORT( $a_1, a_2, \dots, a_n$ : list of integers)
2:   for  $i = 1$  to  $(n - 1)$  do
3:      $least \leftarrow \max(a_1, a_2, \dots, a_n) + 1$ 
4:     for  $j = i$  to  $n$  do
5:       if  $a_j < least$  then
6:          $least \leftarrow a_j$ 
7:          $index \leftarrow j$ 
8:       end if
9:     end for
10:     $a_{index} \leftarrow a_i$ 
11:     $a_i \leftarrow least$ 
12:  end for
13:  return  $a_1, a_2, \dots, a_n$ 
14: end procedure
```
