Algorithm 3.1.20 Find the largest, and smallest integers from a finite sequence of integers

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1: **procedure** EXTREMA(a_1, a_2, ..., a_n: finite sequence of integers)
2:     $minimum \leftarrow a_1$
3:     $maximum \leftarrow a_1$
4:     **for** $i = 2$ to n **do**
5:         **if** $a_i < minimum$ **then**
6:             $minimum \leftarrow a_i$
7:         **end if**
8:         **if** $a_i > maximum$ **then**
9:             $maximum \leftarrow a_i$
10:         **end if**
11:     **end for**
12:     **return** $minimum,\ maximum$
13: **end procedure**