Section 3.1
Problem 20

Describe an algorithm for finding both, the largest and the smallest integers in a finite sequence of integers. (Here we will be adopting the conventional single equal sign is for assignment).

Procedure $smallest/largest(b_1, b_2, b_3, \dots, b_n: integers)$
$\quad smll = b_1$
$\quad lgt = b_1$
$for\ i = 1\ to\ n$
$\quad if\ smll \leq b_i$
$\qquad then$
$\quad smll = b_i$
$\quad if\ lgt \geq b_i$
$\qquad then$
$\quad lgt = b_i$
$return\ smll$
$return\ lgt$