Algorithm 3.1.4 maximum adjacent list entry difference

1: **procedure** MAX DIFFERENCE($a_1, a_2, \ldots, a_n$: list of integers)
2:     $maximum \leftarrow 0$
3:     **for** i = 2 to n **do**
4:         $difference = a_i - a_{i-1}$
5:         **if** $difference > maximum$ **then**
6:             $maximum = difference$
7:         **end if**
8:     **end for**
9:     **return** $maximum$
10: **end procedure**