a. There is not a best or worst case for this program because it will always check every index of the array twice. No sentinel values in the loops
b. The runtime of this function is linear, which means that it is O(n).
c. Doing two running loops as opposed to having a nested loop does change the shape of the runtime graph. Having two separate loops keeps the runtime linear, whereas a nested loop would have been quadratic [$O(n^2)$].
d. Pseudocode for my method:

```
secondMax(array A)

for i=1 to A.length
        if A[i] > Max
                Second = Max
                Max = A[i]
                //Moves to next loop rendition (continue)
        if A[i] > Second or Second == max
                Second = A[i]
```