Extreme Values

The largest (or smallest) value in a collection is called an extreme value. Here is the algorithm for finding the largest in an array:



The algorithm for finding the **smallest** is similar. What if there is no first element? Then there is no largest or smallest element; it is an error condition.

For many algorithms, you not only want to know the largest (or smallest) value, but **where it is located**, either as an index or as a pointer. Click this link to look at both. We'll discuss the two functions in this example in the next section.



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