Removing the Max

Draw the binary max-heap after removing the max value.

Third-Largest Value

If the second-largest value in a max-heap is the root's left child, select all nodes where the third-largest value could be found. Assume all values are distinct.
If 9 distinct values are inserted into this max-heap in decreasing order, which nodes could represent the following?

Q1: Largest value

Q2: Median value

Q3: Smallest value

If 9 distinct values are inserted into this max-heap in an unknown order, which nodes could represent the following?

Q1: Largest value

Q2: Median value

Q3: Smallest value

?: Draw the result of inserting 3, 2, 1 into an empty max-heap.