

**1. How would you find the maximum in a min-heap?**

You would calculate how many leaves there are in the tree based on how many elements the array contains. After calculating, iterate through the leaves to find the biggest by comparing the stored biggest by the element at the pointer. Once the iteration has finished, return the stored biggest element. The upper bound would be in order of  $n$ .

**2. How would you measure the extent to which a tree can efficiently be put in an array?**

Trees that get out of balance should not be put into an array due to the wasted space. A good example of this would be binary search trees.