Heaps

A heap is a completely filled binary tree (ok, maybe not fully leaves) and either one of
- Max-Heap
  For all nodes, value of parent ≥ value of self
or
- Min-Heap
  For all nodes, value of parent ≤ value of self

![heap examples]
How long to find $T_0$ in the heap?

worst-case search: $n$

worst-case height: $\log n$

What is easy to find in a max-heap?

$\max$ is $O(1)$.