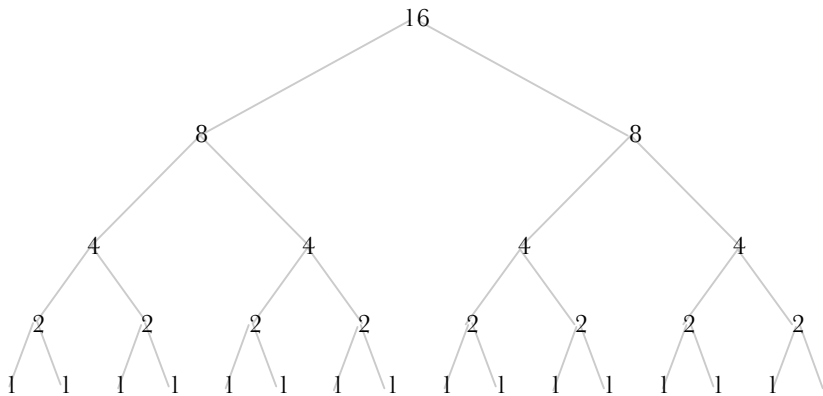


## Sorting, Part 2

1. Reminders:
  - a. Review Session Sunday 4pm TCL 206
  - b. Review Session Tuesday PM TBD
  - c. **Exam Wednesday 1pm** TCL 217
2. Syllabus Change: Please read Ch. 9 some time next week
3. Last time:
  - a. `java.util.Comparator`
  - b. Merge and Merge Sort
4. Warm-up: Sort these numbers by hand, paying attention to your process
  - a.  $\{3, 5, 2, 0, 6, 4, 4\}$
5. Selection sort in action (videos on the course web page)
  - a. Analysis:  $O(\quad)$
6. Merge sort
  - a. Analysis:  $O(\quad)$



7. **Quick sort**

a. **Partition operation**

b. Algorithm:

```
void quickSort(Value[ ] array, int start, int stop) {
```

i. Base Case

ii. Recursive Case:

```
}
```

c. Analysis:  $O(\quad)$

d. Is it actually “quick?”

e. Is Quick sort better than Merge sort?