

## Q1 Instructions

0 Points

To receive full credit on this quiz, you must score at least 50%.

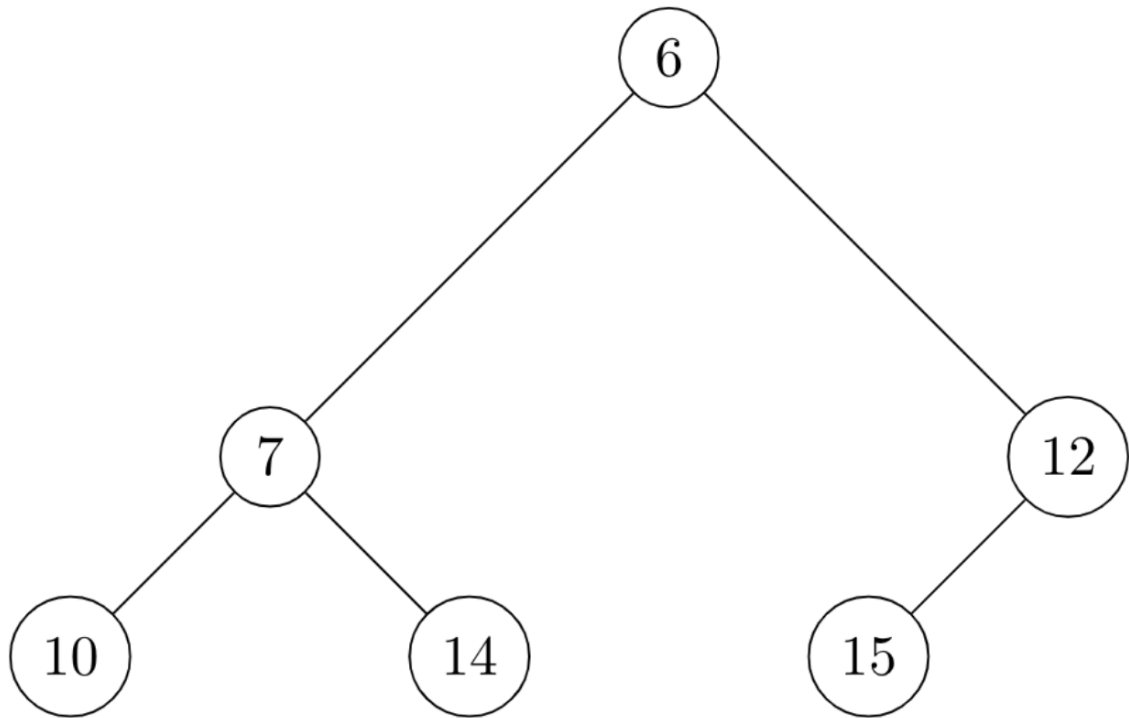
The Github repo for Lecture 20 is at:

<https://github.com/ucsd-cse12-sp21/ucsd-cse12-sp21.github.io/tree/master/lectures/lecture-20>

## Q2 Min Heap Add

1 Point

If the value 4 is added to the min heap below, what number will end up in the new bottom right leaf node?



- ☐ 4
- ☐ 6
- ☒ 12
- ☐ 15
- ☐ None of the above

## Q3 Min Heap Swaps

1 Point

How many TOTAL swaps will occur when adding the elements 6, 2, 7, 12, 5, 3, 4 (in that order) to a MAX heap?

- ☐ 1
- ☐ 2
- ☒ 3
- ☐ 4
- ☐ 5

### Q4 Swaps

1 Point

What the maximum number of swaps that could occur when building a heap with 10 items?

- ☐ 3
- ☐ 6
- ☐ 10
- ☒ 19
- ☐ 30