## Kavan Lima Computer Science I – Exercise Heaps

4/8/25

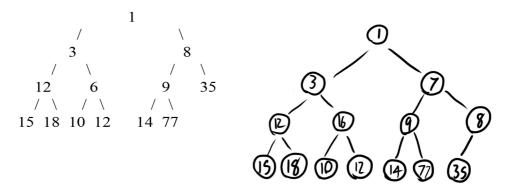
1) In an array-based implementation of a Heap, the left-child of the left-child of the node at index i, if it exists, can be found at what array location?



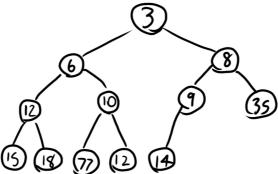
2) In an array-based implementation of a Heap, the right-child of the right-child of the node at index i, if it exists, can be found at what array location?

All the following questions are related to minheap

3) Show the result of inserting the item 7 into the heap shown below:



4) Show the result of removing the minimum element from the original heap in question #2 (without 7) from above.



5) Show the array representation of the original heap from question #1.3

3	6	8	12	10	9	35	15	18	17	12	14	