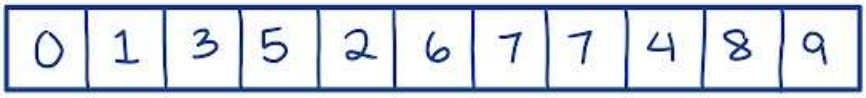
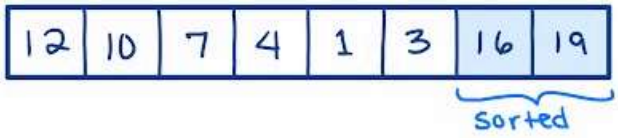
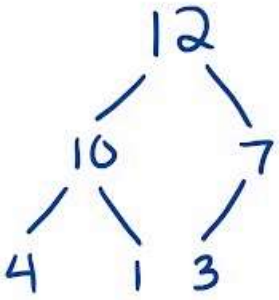
How many inversions appear in the following list of numbers? * 2 points



- 4
- 5
- 6
- 7

Consider the current state of an array in the middle of a heapsort. What will be the resulting array after popping off the next largest element? * 2 points





- [10, 1, 3, 7, 4, 12, 16, 19]
- [10, 7, 4, 1, 3, 12, 16, 19]
- [7, 10, 3, 4, 1, 12, 16, 19]
- [10, 4, 7, 3, 1, 12, 16, 19]

What problem of selection sort does heap sort aim to address? * 2 points

- ◯ Needing to shift elements over one by one to make space for the inserted element
- ◯ Needing to scan all unsorted elements in order to find the next smallest element
- ◯ Needing to use $O(n^2)$ memory to sort the array
- ◯ Not being able to handle duplicate elements in the input array

A copy of your responses will be emailed to yiyunchen@berkeley.edu.

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