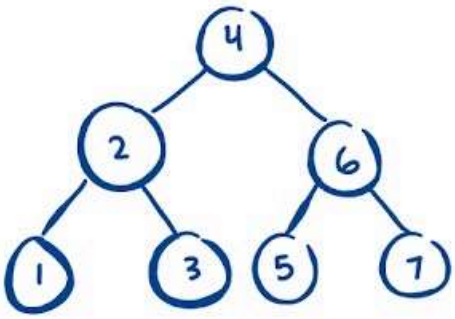
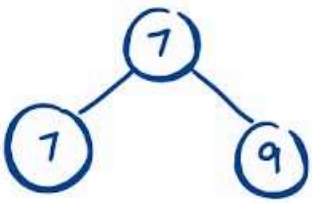
Which of the following are min heaps? *

2 points

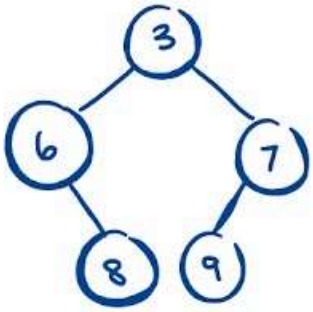
Option 1



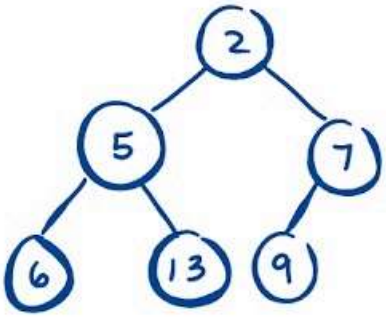
Option 2



Option 3



Option 4



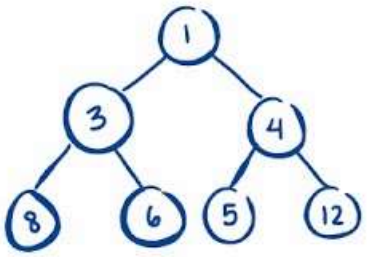
- [ ] Option 1
- [ ] Option 2
- [ ] Option 3
- [ ] Option 4

Tyler sees the Heap Delete algorithm in lecture and decides to make a slight variation. When replacing the root with a node from the bottom row, he uses the **leftmost** item instead of the **rightmost** item. Afterwards, he sinks the root exactly as described in lecture. What impact will this change have? 2 points

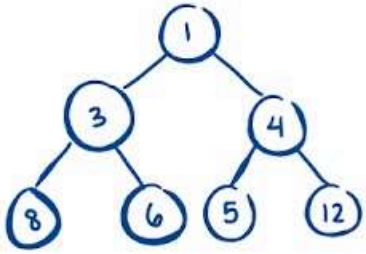
- ○ The tree will still be a valid min-heap after the delete is complete.
- ○ The tree will no longer satisfy completeness, resulting in an invalid min-heap.
- ○ The tree will no longer satisfy the min-heap property, resulting in an invalid min-heap.

What will the following min-heap look like after inserting 5? 2 points

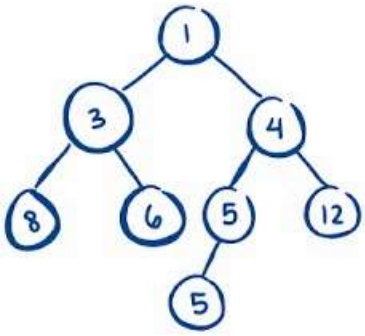
original



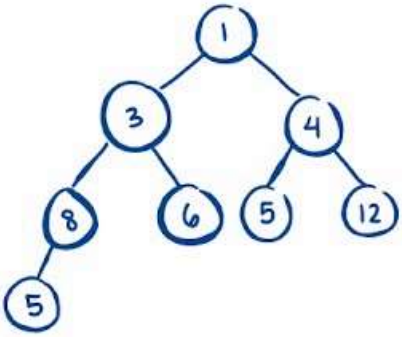
option 1



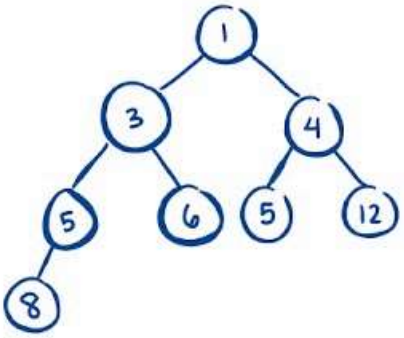
option 2



option 3

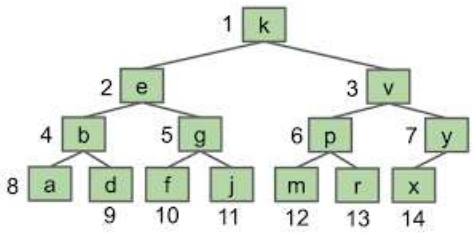


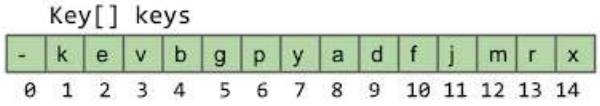
option 4



- Option 1
- Option 2
- Option 3
- Option 4

Consider the array representation of a heap in lecture. If we want to find the first item in level i, what index should we look at? 2 points





- i*2
- Math.pow(i,2)
- Math.pow(2,i)
- Math.log(i)

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

Submit

Clear form