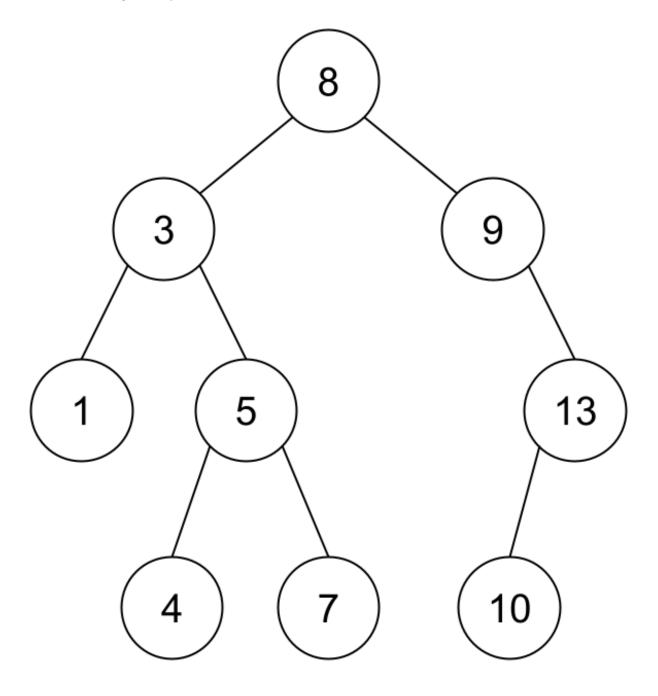
## Week 9 Quiz

## Q1.

Consider the following binary search tree:



Say that we wanted to delete the 5 node. Using the deletion algorithm presented in the lessons, which node would replace the 5?

- A. 3
- B. 4
- C. 7
- D. 8

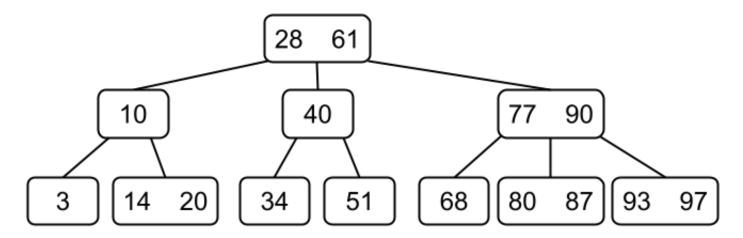
## **Q2**.

The efficiency of summing all of the keys in a "regular" (non-search) binary tree is O(n), since the algorithm needs to visit every node. What is the efficiency of summing all of the keys of a binary search tree?

- A. O(1)
- B. O(logn)
- C. O(n)
- D. O(nlogn)

**Q3.** 

Consider the following 2-3 tree:



Which of the following keys would \*not\* cause a split to occur when inserted?

- A. 9
- B. 17
- C. 85
- D. 92