Section 6: Binary Search Trees (2 questions)

Question 1

1/1 point (graded)

Which of the estimates below is the tightest correct estimate of the running time of $Insert, Remove, Find, Split$ and $Merge$ operations with **AVL tree?**

- $O(1)$ worst-case
- $O(1)$ amortized
- $O(\log n)$ worst-case ✔
- $O(\log n)$ amortized
- $O(n)$ worst-case
- $O(n)$ amortized

Submit You have used 1 of 1 attempt

Question 2

1/1 point (graded)

Which of the estimates below is the tightest correct estimate of the running time of $Insert, Remove, Find, Split$ and $Merge$ operations with **Splay tree**?

- $O(1)$ worst-case
- $O(1)$ amortized

- ○ $O(\log n)$ worst-case
- ◉ $O(\log n)$ amortized ✔
- ○ $O(n)$ worst-case
- ○ $O(n)$ amortized

Submit You have used 1 of 1 attempt