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## 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?

$\bigcirc$ $O(1)$ worst- $\bigcirc$	ase
$\bigcirc$ $\mathit{O}(1)$ amorti	zed
$looplus O(\log n)$ wo	rst-case ✔
$\bigcirc \ O(\log n)$ an	ortized
$\bigcirc$ $\mathit{O}(\mathit{n})$ worst-	case
$\bigcirc$ $O(n)$ amorti	zed
Submit You	nave used 1 of 1 attempt
Question 2	
	lates below is the tightest correct estimate of the running time of $m{Find}, m{Split}$ and $m{Merge}$ operations with $m{Splay}$ tree?
$\bigcirc$ $O(1)$ worst- $\bigcirc$	ase
$\cap O(1)$ amorti	

$looploop O(\log n)$ amortized $looploop$					
$\bigcirc O(n)$	vorst-case				
$\bigcirc O(n)$	ımortized				

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