Data Structure	Operation	Best Case	Average Case	Worst Case
BST	Insert	O(log n)	O(log n)	O(n)
	Delete	O(log n)	O(log n)	O(n)
	Search	O(log n)	O(log n)	O(n)
AVL Tree	Insert	O(log n)	O(log n)	O(log n)
	Delete	O(log n)	O(log n)	O(log n)
	Search	O(log n)	O(log n)	O(log n)
Splay Tree	Insert	O(log n)	O(log n) amortized	O(n)
	Delete	O(log n)	O(log n) amortized	O(n)
	Search	O(1) (if recent)	O(log n) amortized	O(n)
Red-Black Tree	Insert	O(log n)	O(log n)	O(log n)
	Delete	O(log n)	O(log n)	O(log n)
	Search	O(log n)	O(log n)	O(log n)
B-Tree (order m)	Insert	O(log n)	O(log n)	O(log n)
	Delete	O(log n)	O(log n)	O(log n)
	Search	O(log n)	O(log n)	O(log n)
Hashing (Division Method)	Insert	O(1)	O(1)	O(n) (with chaining)
	Delete	O(1)	O(1)	O(n)
	Search	O(1)	O(1)	O(n)
Heap (for Heap Sort)	Insert	O(1)	O(log n)	O(log n)
	Delete Max/Min	O(log n)	O(log n)	O(log n)
	Search	O(1) (top only)	O(n)	O(n)