These are all worst-case

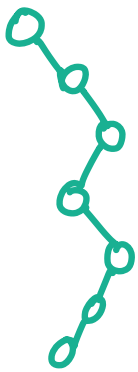
operation	Sorted List	Tree
search	O(log *n*)	O(*n*)
insert	O(*n*)	O(1)
delete	O(*n*)	O(*n*)

lightning bolt

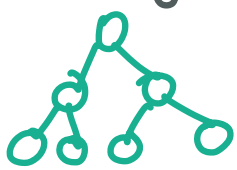
balanced

	BST worst case	best case
search	O(n)	O(log n)
insert	O(n)	O(log n)
delete	O(n)	O(log n)

Tree insertion could be O(1), depending on how we do it. Eg, we could pick a child + put the new node between it and the root.
In Lab 8, we asked you to write it in a way that is O(n) in the worst case.



a "lightning bolt" tree



a balanced tree