Binary Search Trees

By the end of this video you will be able to...

- Define a Binary Search Tree
- Identify valid Binary Search Trees

Binary Search (Review)

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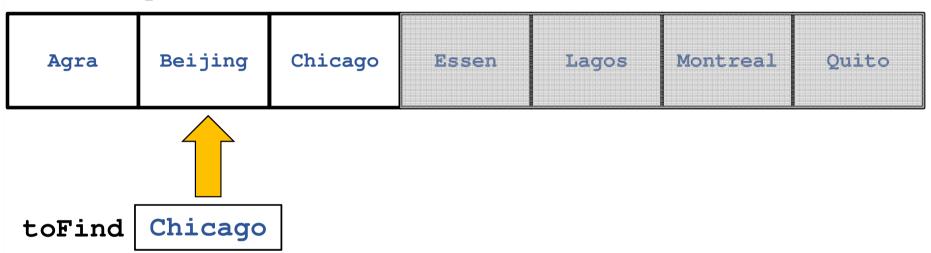


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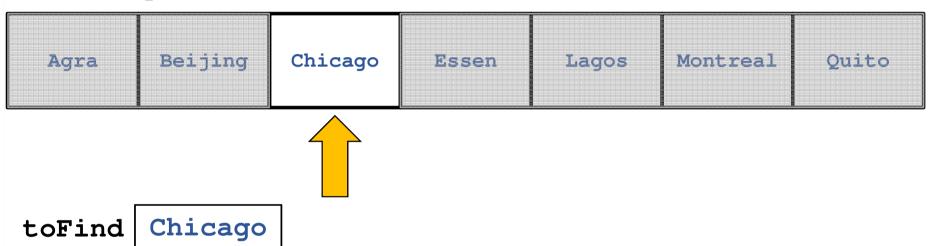
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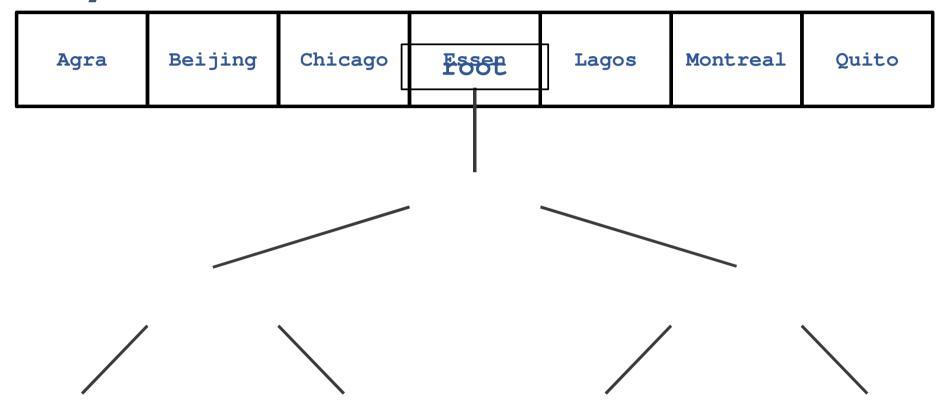




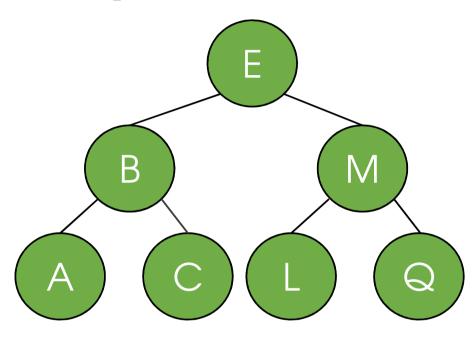
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Sorted arrays are good for search, but bad for insertion/removal

Binary Search Tree



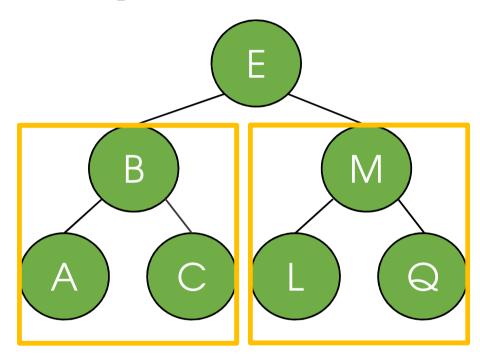
Binary Search Tree



Binary Search Tree:

1. Binary Tree

Binary Search Tree

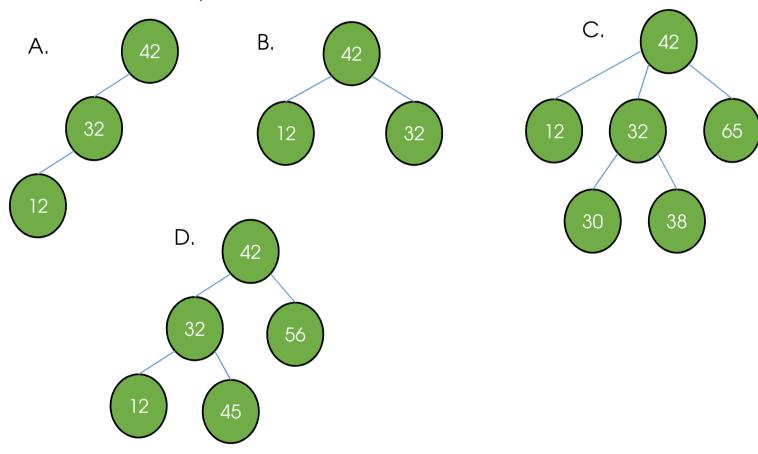


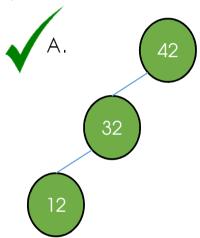
Left subtree's values must be lesser

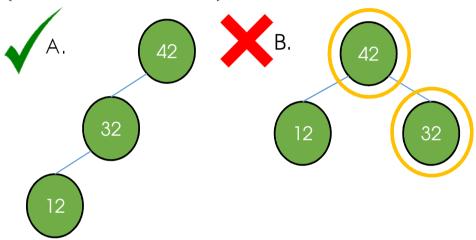
Right subtree's values must be greater

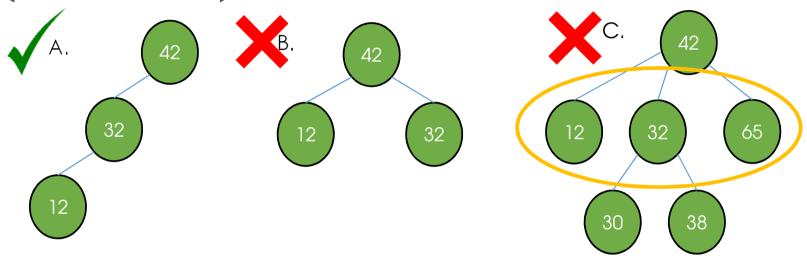
Binary Search Tree:

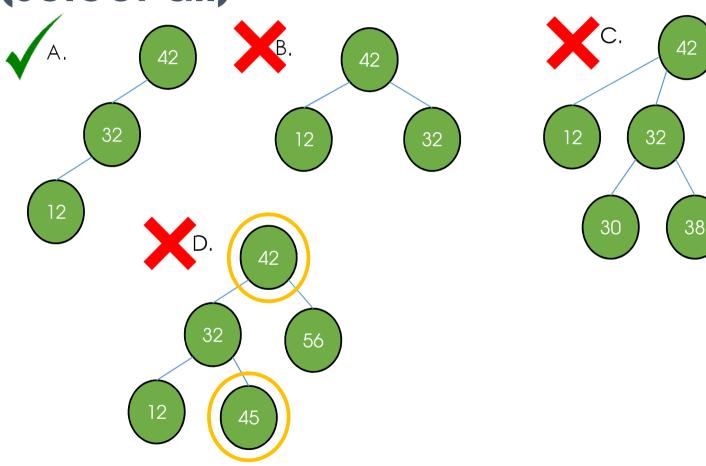
- 1. Binary Tree
- 2. Left subtrees are less than parent
- 3. Right subtrees are greater than parent







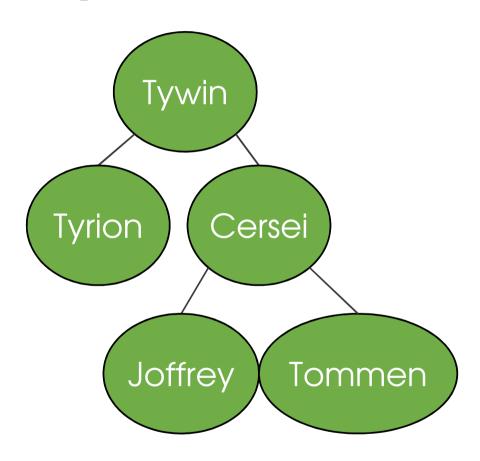




Next step

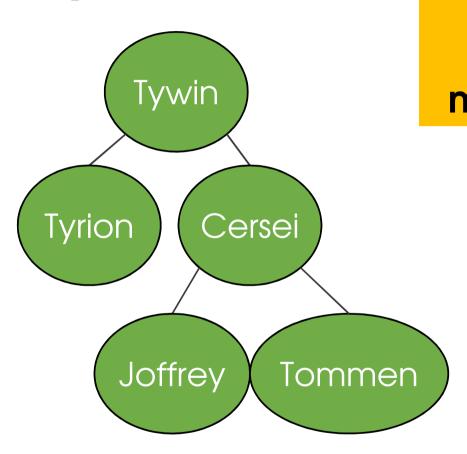
Searching BST

Binary Tree



http://www.hbo.com/game-of-thrones

Binary Tree



Many trees have some sort of meaningful ordering