

Remember Tree Intro

- Various designs
- Different nodes than in a linked chain
- Use Recursion
- Find height, find number of nodes

Binary Search

- Remember how it is done with sorted arrays?
- How about 'searchable' trees?

2

7

18

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25

29

36

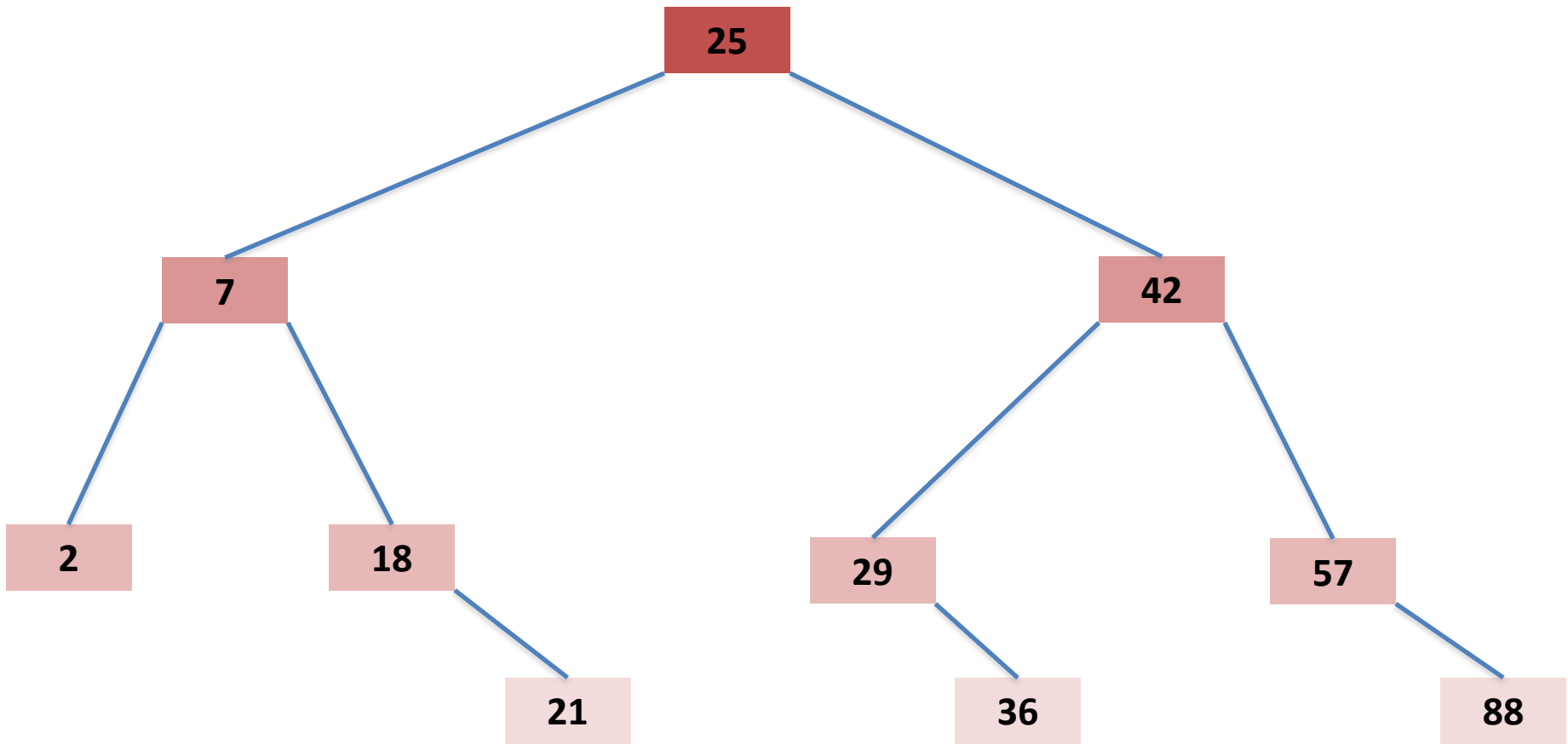
42

57

88

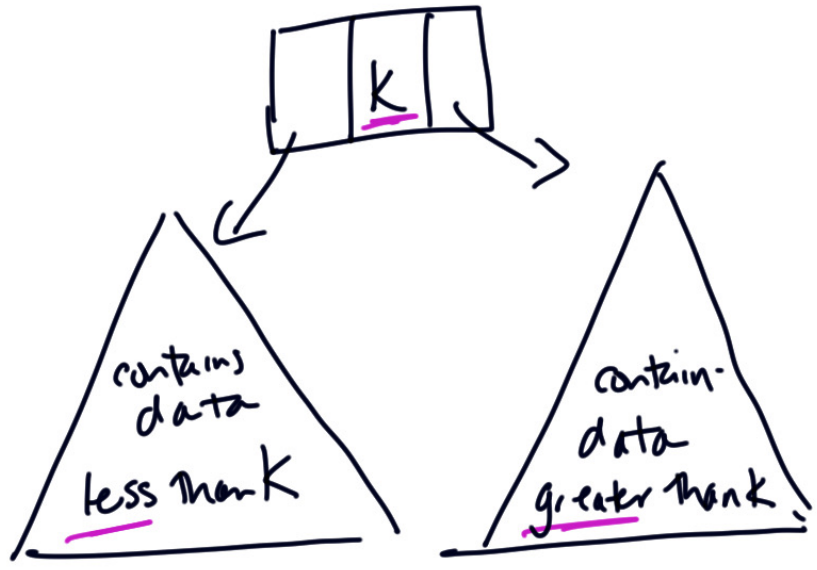




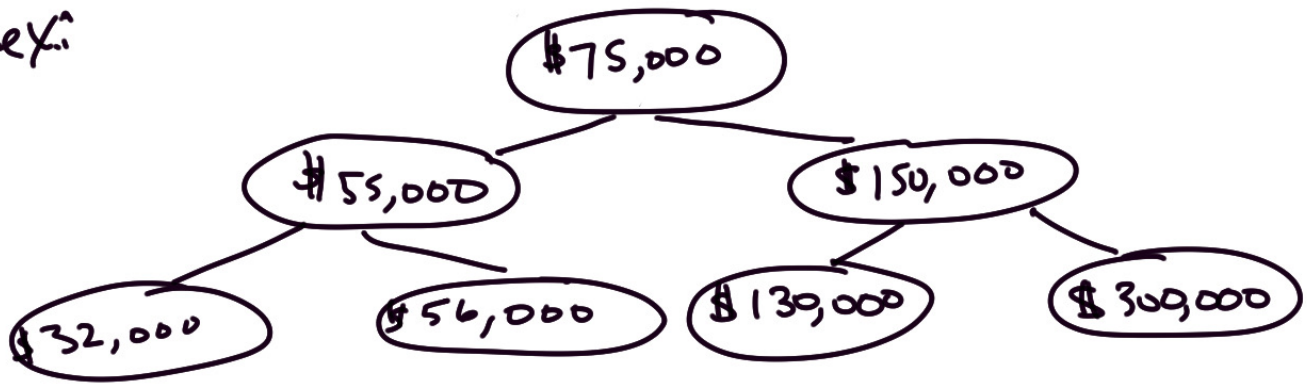


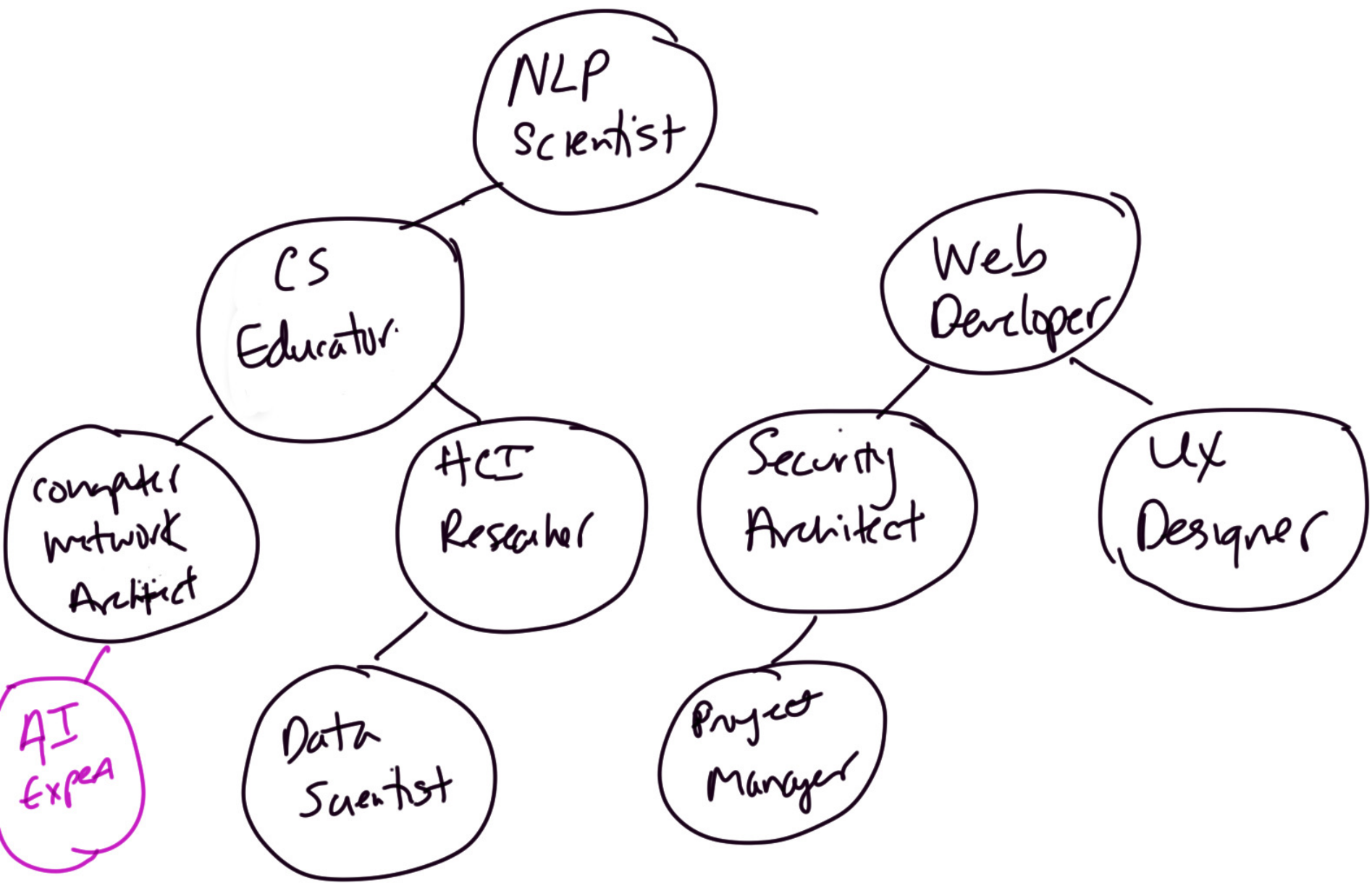
Binary Search Tree

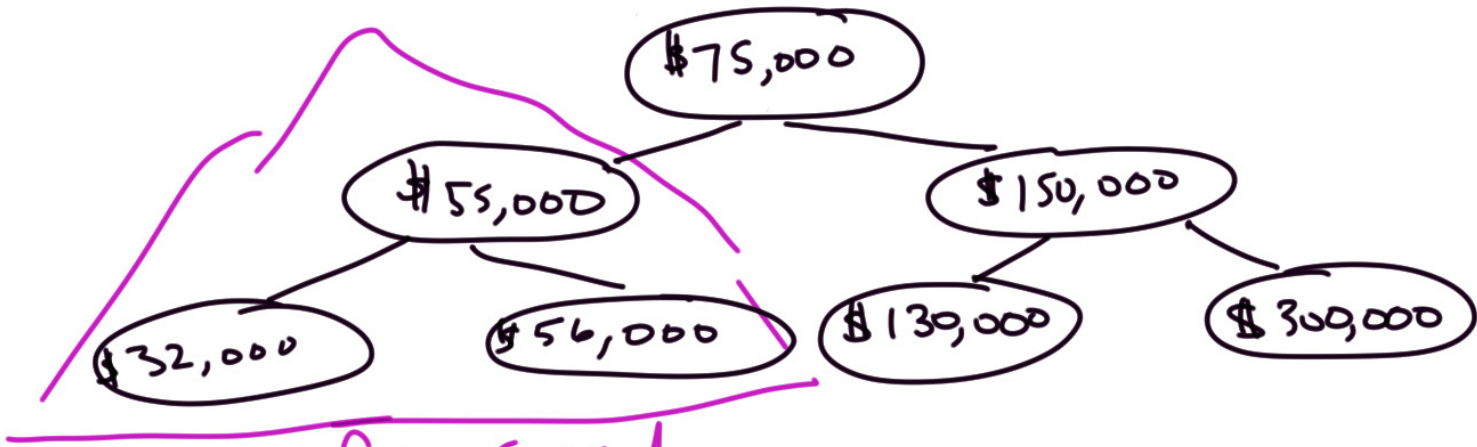
Special case
of a binary tree



ex:







Algorithm for search

bst Search (tree, target)

if tree is empty
return false

else if node contains target value
return true

else if target < node value
return bst Search (left subtree, target)

~~else if target > node value
return bst Search (right subtree, target)~~