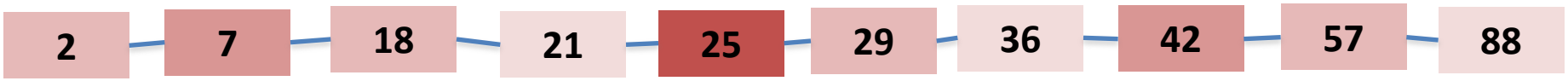
Remember Tree Intro

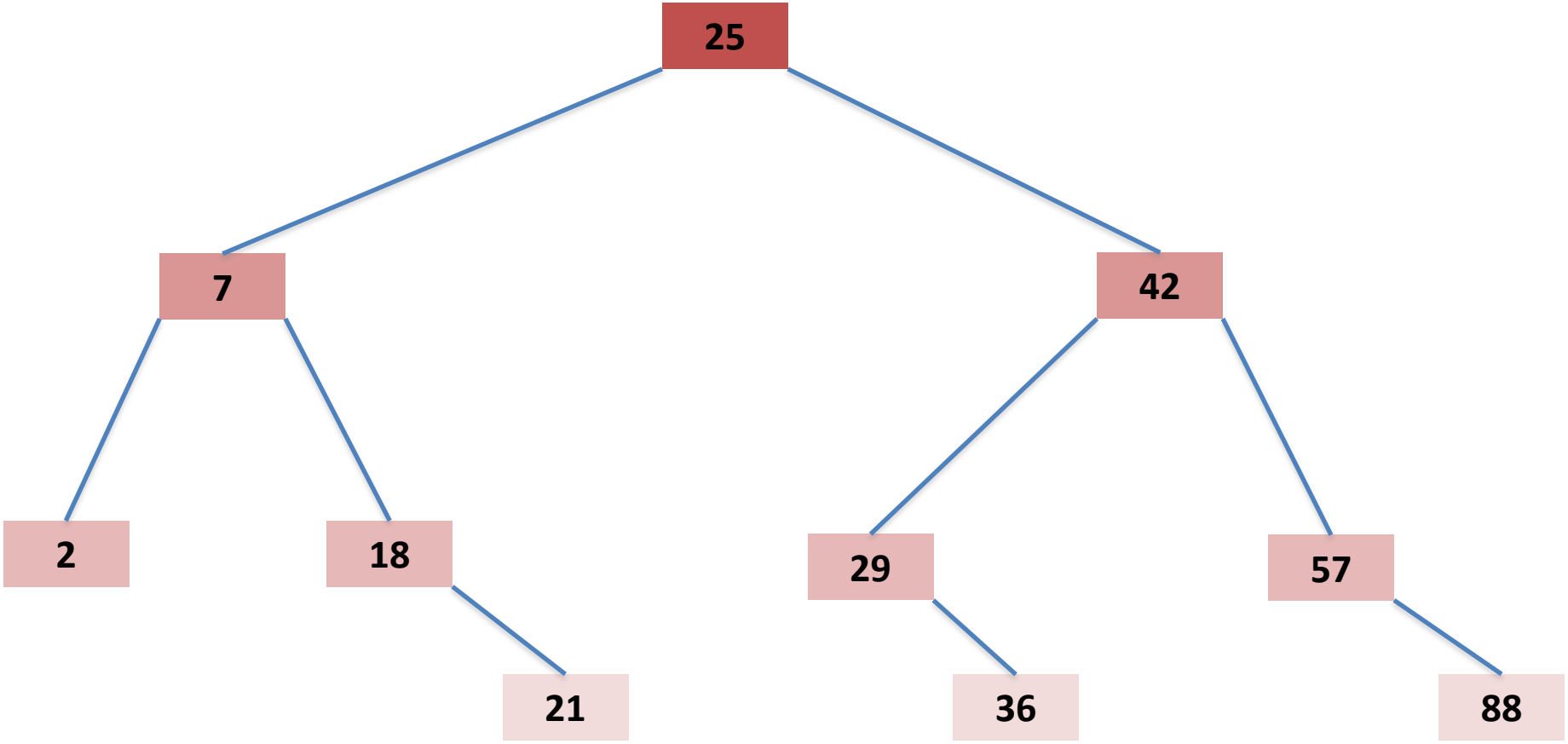
- Various designs
- Different nodes than in a linked chain
- Use Recursion
- Find height, find number of nodes

Binary Search

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

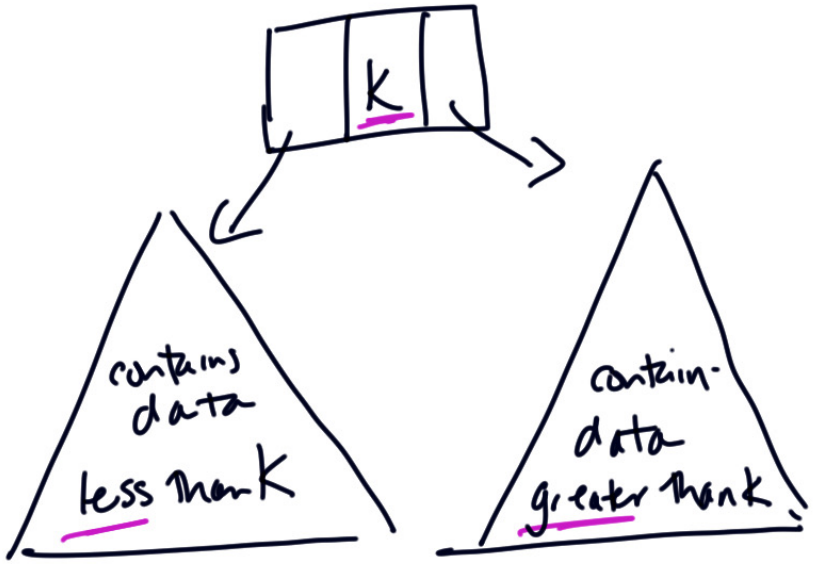
2
7
18
21
25
29
36
42
57
88


2
7
18
21
25
29
36
42
57
88

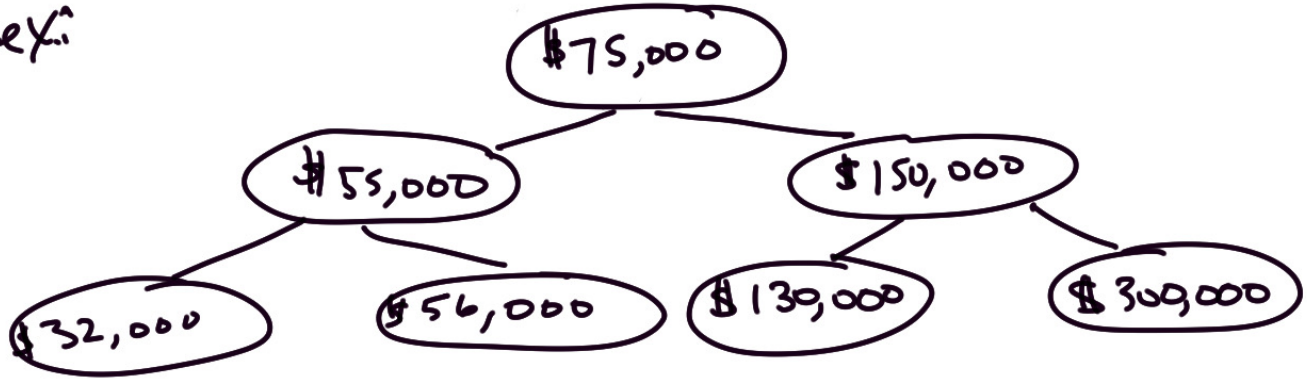

25
7
42
2
18
29
57
21
36
88

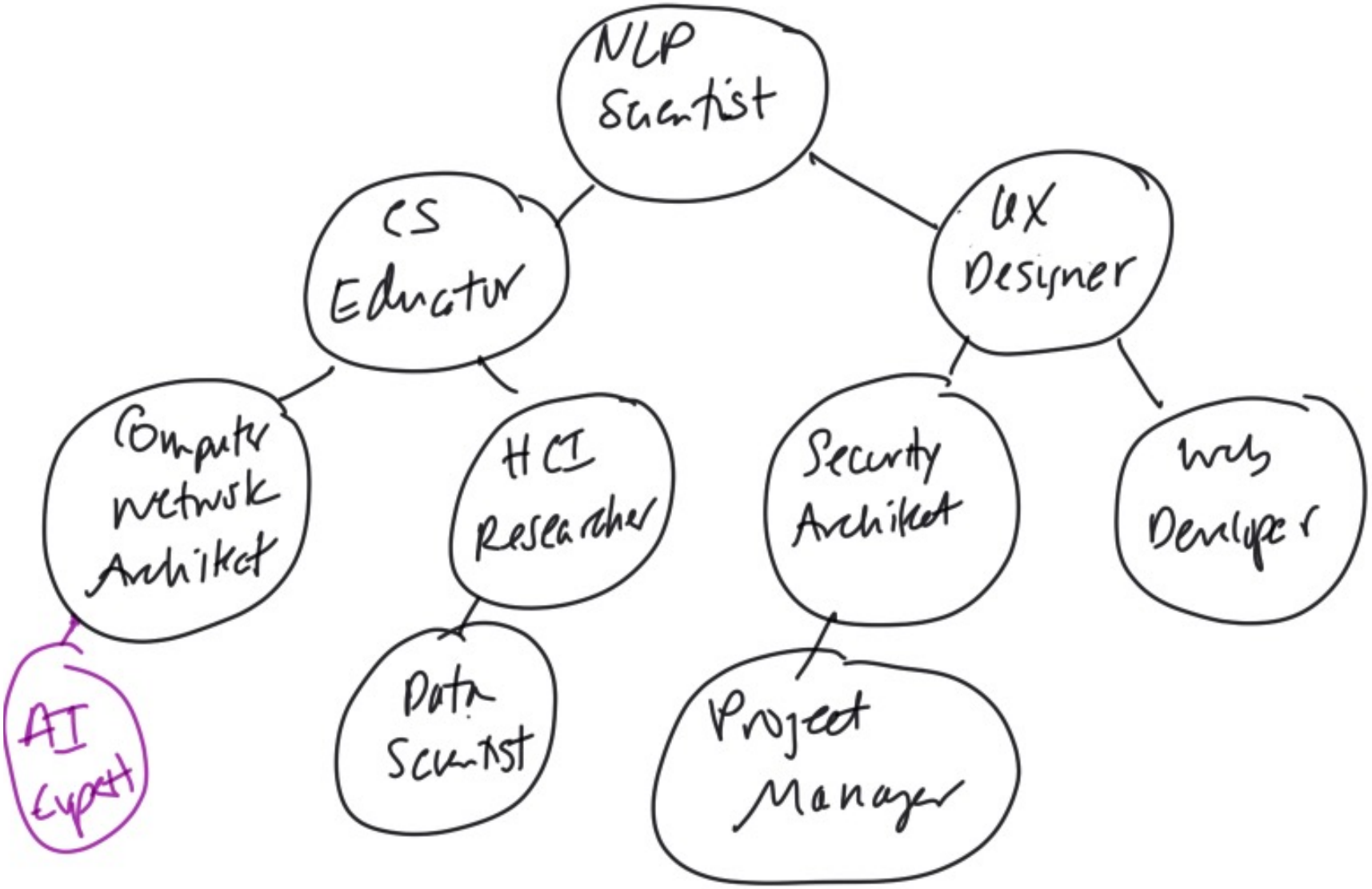
Binary Search Tree

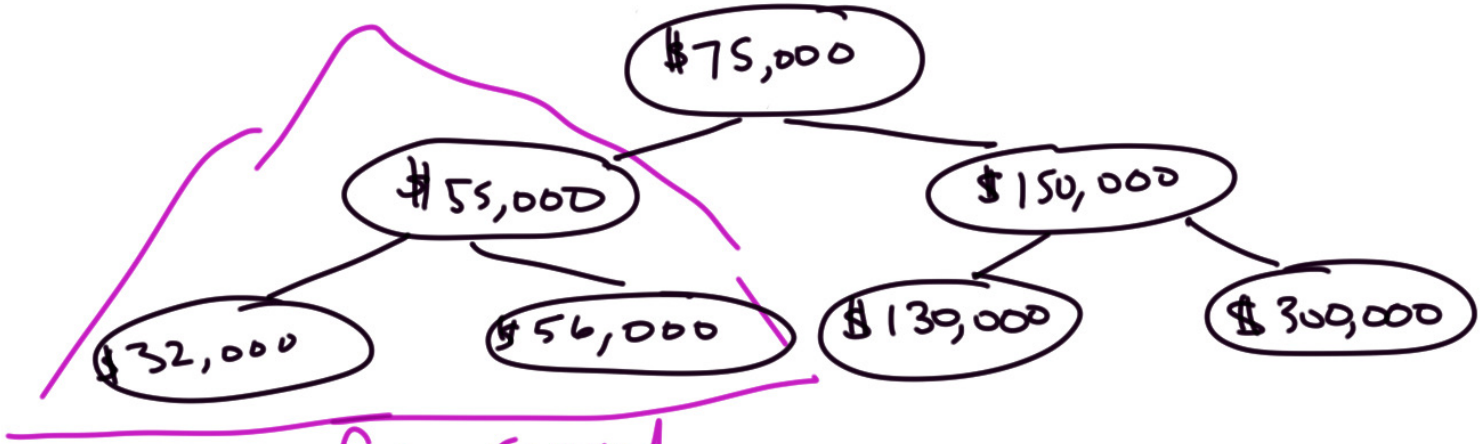
Special case of a binary tree



ex:




NLP Scientist
CS Educator
UX Designer
Computer network Architect
HCI Researcher
Security Architect
Web Developer
AI Expert
Data Scientist
Project Manager



Algorithm for search

```
bstSearch (tree, target)
    if tree is empty
        return false
    else if node contains target value
        return true
    else if target < node value
        return bstSearch (left subtree, target)
    else if target > node value
        return bstSearch (right subtree, target)
```