

Module 4 - Dictionaries and Balanced Search Trees

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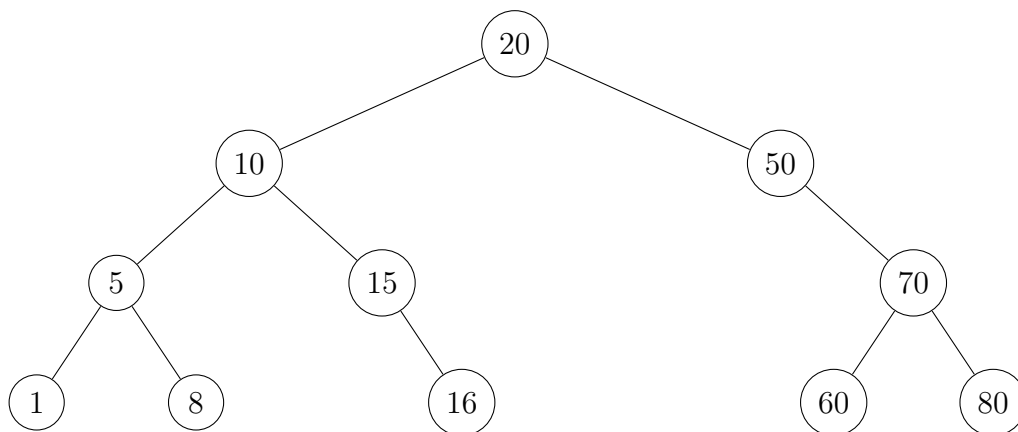
Dictionaries

- An ADT
- Data (key, value) pairs
- operations: search, insert, delete

Data Structures for Dictionaries:

- unsorted array or linked list
 - search: $O(n)$
 - insert: $O(1)$
 - Delete: $O(n)$
- sorted array
 - search - binary search $O(\log n)$
 - insert $O(n)$
 - delete $O(n)$

0.1 BST



Insert 6

