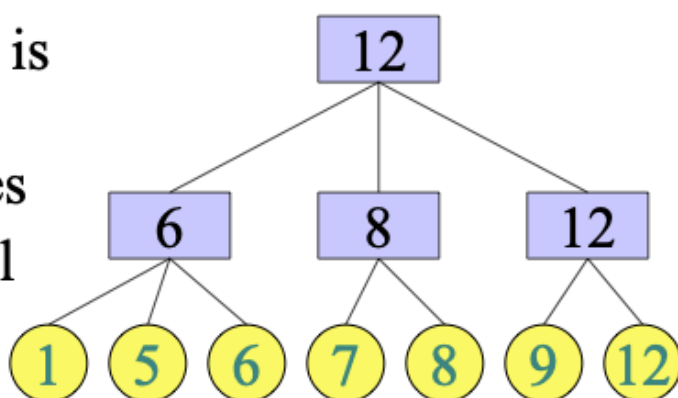# 2-3 Trees

- Degree of each node is either 2 or 3
- Keys are in the leaves
- All leaves have equal depth
- Leaves are sorted
- Each node x contains maximum key in the sub-tree, denoted $x.max$

- Internal nodes:
  - Values:
    - $x.max$: maximum key in the sub-tree
  - Pointers:
    - left[x]
    - mid[x]
    - right[x] : can be null
    - p[x] : can be null for the root

- ...
- Leaves:
  - $x.max$: the key

- 2-3 trees are the simplest balanced trees.

- Write a program to implement Search, Insert and Deletion in 2-3 trees.