

Reminder IV

- Rooted tree : siblings and internal vertices.
p-ary tree, complete p-ary tree, ordered tree
→ binary, ternary tree (2 or 3 ary + ordered)
- decision tree, tree data structure, shortest path tree.
- traversals (4 types mentioned, priority L, N, R)
- $L(x)$ left tree below x , $R(x)$ right tree below x
- Arithmetic expression tree
- Binary search tree for totally ordered set (S, \leq)
→ search, insert, remove algorithms
- Huffman tree and algorithm :
binary code and prefix code for symbols set.
If weight w_j for each symbol, weighted depth
 $w(T) := \sum_j w_j d(x, x_j)$.
↑ minimize this quantity : Huffman algorithm.