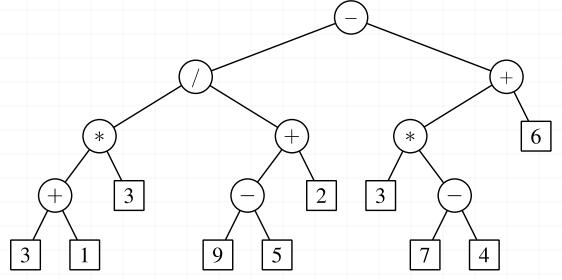
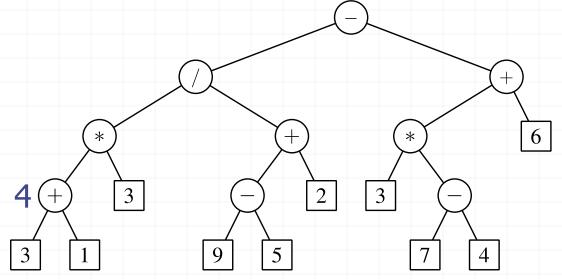
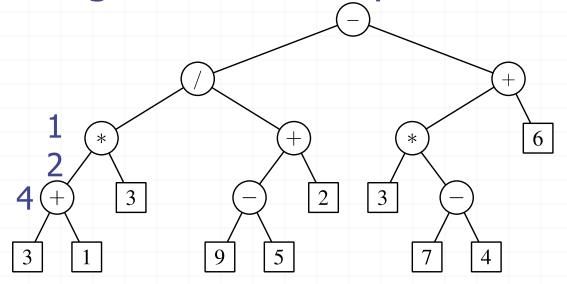
Evaluating Arithmetic Expressions



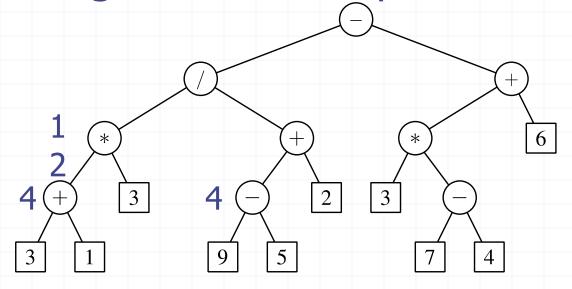
Evaluating Arithmetic Expressions



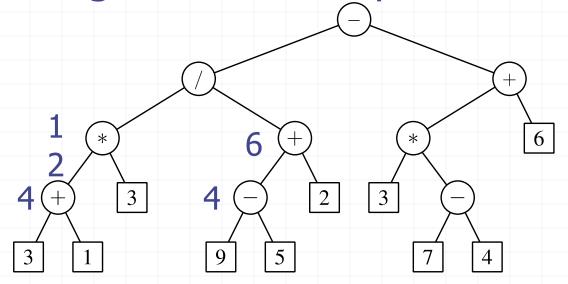
Evaluating Arithmetic Expressions



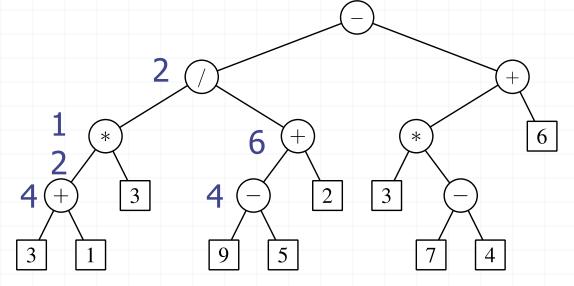
Evaluating Arithmetic Expressions



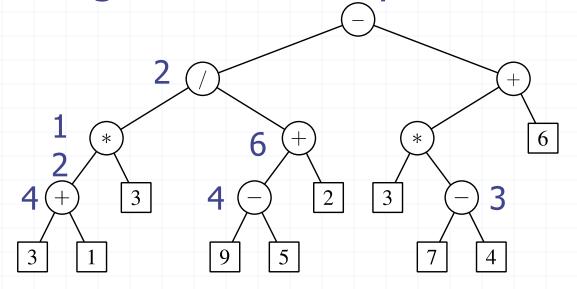
Evaluating Arithmetic Expressions



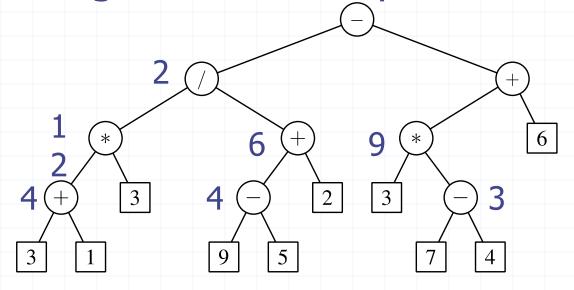
Evaluating Arithmetic Expressions



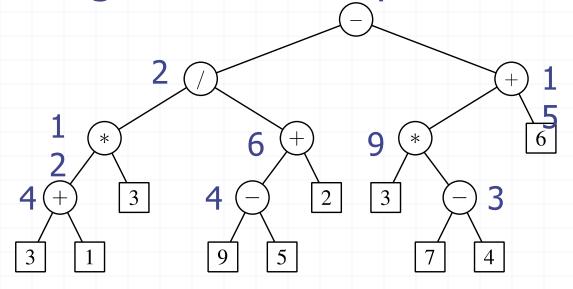
Evaluating Arithmetic Expressions



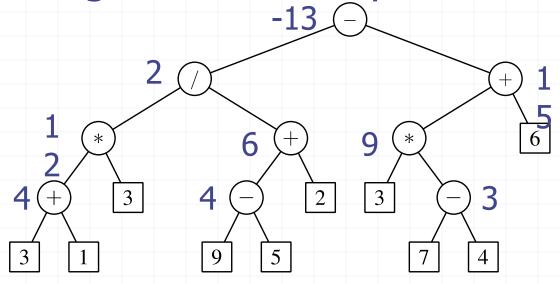
Evaluating Arithmetic Expressions



Evaluating Arithmetic Expressions



Evaluating Arithmetic Expressions

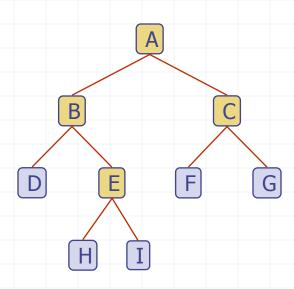


Inorder traversals

- Visit the node between the visit to the left and right subtree
- Algorithm inorder(p)
 - If p has a left child lc then
 - inorder(lc)
 - perform "visit" action for position p
 - If p has a right child rc then
 - inorder(rc)

Example - Inorder Traversal

- Inorder
 - dbheiafcg



Given Preorder and Inorder travesal, sew 1st auch the travel Inorder Preorder dbheijat cg abdehicf g Step 1; look at preorder, it starts with a =) noot is a a dbheiafcg left subtree eright subtree Step2: 200t 08 left subtree is b

Inorder

dbheint cg

Step 3: look at fore order e occurs before hond i

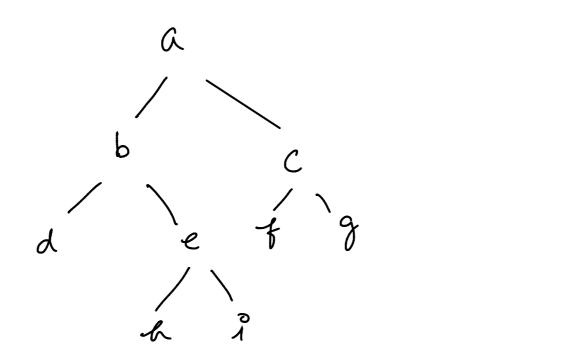
=) e is the shot of the night sub-tree of b

a e i

b d e

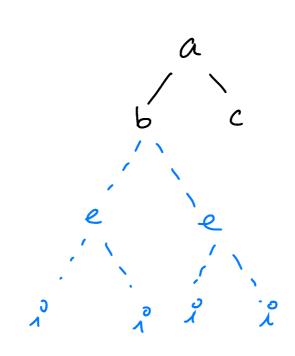


Step 4: look at presider, c occurs before of and 9



(Not seways) reconst suct ? Preorder and Post order Post order only when the Preorder abesic ie beco at either preorder or post order =) a is snoot 100 K Step 1: 0 beic can belong to Lalone, Ralone, both Steep 2: (eook at prevour) cannot be R alone be i c (look at pretpost R alone =) from preorder b should be nder) belongs to if be ic a's origat child =) b should be second forom last in bost order X => from post order c should be a's beichelongs Lalone left child c should be second from beginning in preadle ×





Exercise:

postonder a h 1° e b f 8 ° a