Asg.S - indement postfix expressive evaluator first - then work on jething infor to presting conversion - use stringstream goots to complex putfit (like you would have done with cin>) - examples of strangestrems of std:: 1 stringstrem std:: 0 stringstrem std: 1 ostringstream os; -use the juid like staticalt less 0) << operand << " "; - Use os. str (""); to dear os (ostray reren) - to print os, lo this: stall cout << os. str(). c_str(); ctt string is the char te contained within - using std:: istringstream: stdiistingstream is (expression); Coust cher ¥ Here use is a just like stal: cin, ey.,

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std:: cin, ey., while (c= is.get()) ? if (isdigit(c)) & is, pthats(c); is >> unin; alx? : 11 process prist pris Ì

Tuesday, September 22, 200 root node Chapter 4 Trus 100t, The J substances - in yourds each node combours any number of childer Ì es. stut Nale ? std:, verter < Nale +> child; eart nocle nauthairs a list (linked list) of child/a - e-1., Unite directory is a large n-ary tru (earth die can harve in studie) - root Juir / 115 14m leter / houre

/local/ /ind.Me/

andrend /

lbu root - some tree tarms. depth of a node: length of patrs from rost, height of a free IM () longot patt to a learly (be wany up degenerate tees parent, child search - Inplementation: (binany free) -speaded cose, Node struct good for Jerting data ; searching Nocle + lett; Note & r. M.F.;

- (laversul) D. (H) E. (e., in printing) pre-order: voot, left, vijnt 1, 2, 4, 5, 3, 6, 7 yout-opler: 19th MMH, Post 4, 5, 2, 6, 7, 3, 1 in-order: left, not, pMt 4,2,5,1,6,3,7

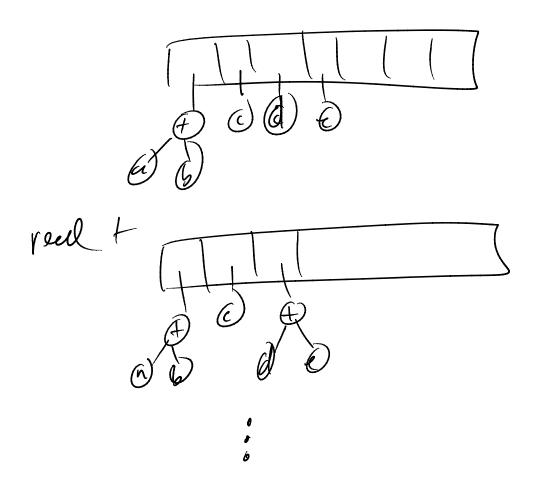
Tuesday, September 22, 2009

Application of inorder Armenial - expressions

nales: openates lewos: openands c

- print in 1Es-order: (a+(b+c))+(((d+e)+f)+g)- post-orler (ebe ++ de + f+ g ++ - Note: note presedence operators

() + / +when popping (in asy 3), specill con check predence order IL ASg 3 - Use ASCII table (on Linux hox, thre 'man asciu' to get nsier fable)



4.3.1. Binar Securb Trees; Fuesday, September 22, 2009 - one of the more inportant ADT. - idea is for find() to take O(lyn) withen a opp) - Key property: all nodes is left subtree are smaller than in vyMt - Ve can plane any kind of dijert acts the so buy as your define operator < defind - one operations; contairs (); the find grenation " on areye" (Galanced Tree) you divide seenting I usely at pp level min(): voture left-most chiff map(1: a BM - nost child (nsent () s like find, Men attalh an en child phime () - lost meere defficilit