ENGINEERING ONLINE

Lecture Notes

Course Number: CSC 513

Instructor: Dr. Singh

Lecture Number: 24



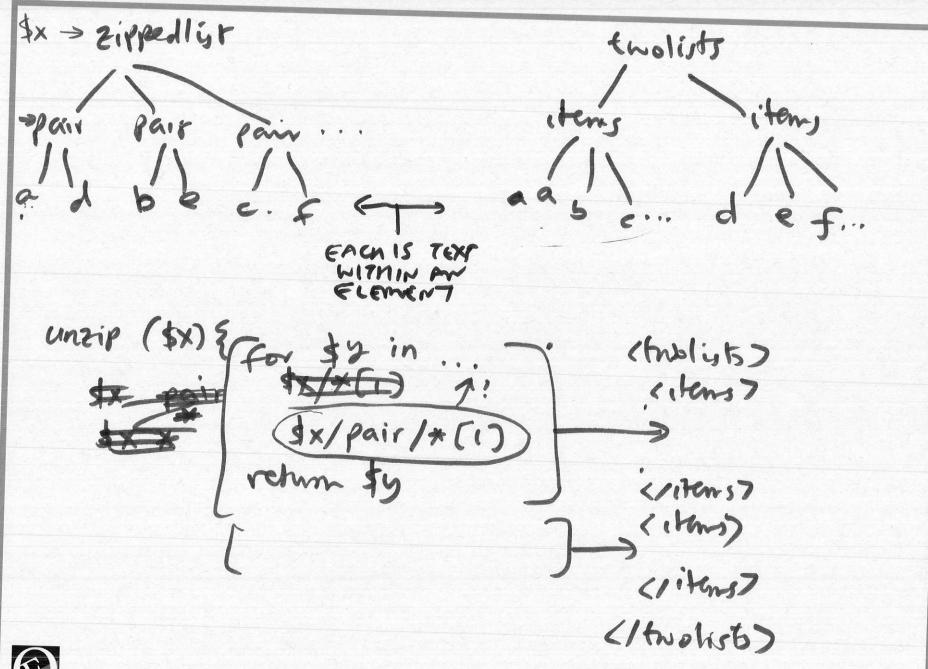
nextsis prevsib 1 .. last() -.. pressib (\$x) {

node()

{x/preceding-sibling:: element() [[ast()]]



Zor TWOUSTS ZIPED CIST ler \$ finds := \$ t / items[i]/2 zip (\$t) 5 (7 igpedlist) 218(36) 5 C/21 pper 6-17 (2'ippedist) let \$ firsts := \$ {/ Uans(i) ler search: = \$t/items[2] det secondin second/ckm[si] rehm < pan > © North Carolina State University, All Rights Reserved





RECURSIVE FIBONACCI fact (\$1) § fish 1,1,2,3,5,8,13, if (In= 0) fib (\$n) } if ((\$n=0) or (\$n=1)) else \$n*
fact (\$n-1) then 1 else Fb (\$n-1) +fib (\$n-2) iterative : O(n) complexity of iterative fu: O(1) © North Carolina State University, All Rights Reserved

CAN WE HAVE A RECURSIVE FIB ALGO OF O(n) COMPLEXAND (Uses an array to Shore Fis(n) Spore O(n) fitel ament = Want O(1) space for \$1:=0 . . fib(

