Fourth Excercise

Hi,

Everyone!This excercise is about tree.

Please hand in your work to zuolinchen@126.com in two weeks.

Assignment:

(1) Implement the inorder traversal of a binary tree without using the recursive method(Hint: using a stack).

(2) Given the sequence of lever order, with the parent node of each element，write a function to construct the corresponding binary tree. For example, the sequence: A B(A) C(A) D(BR) E(C) F(C) G(E) H(E), represents such a binary tree as follows:

A

B C

D E F

G H

where, D(BR) means that D is the mere right child of B.

(3) Given an array, turn it into a complete binary tree stored in a doubly-linked list.

(4) Suppose a binary tree is stored in a doubly-linked list, and the level of root node is 1. Design an algorithm to traverse all the nodes in level i（i>0）from right to left.