ForNextDay24

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binarytree.c

#include <stdio.h>

#include <stdlib.h>

typedef struct node BTreeNode, \*pBTreeNode;

struct node {

char\* payload;

pBTreeNode left;

pBTreeNode right;

};

void printPre(pBTreeNode head);

void freeBTreeNode(pBTreeNode head);

int main(void)

{

pBTreeNode head = (pBTreeNode)malloc(sizeof(BTreeNode));

char w1 = 'w';

head->payload = &w1;

pBTreeNode l = (pBTreeNode)malloc(sizeof(BTreeNode));

char o = 'o';

l->payload = &o;

pBTreeNode r = (pBTreeNode)malloc(sizeof(BTreeNode));

char w2 = 'w';

r->payload = &w2;

head->left = l;

head->right = r;

printPre(head);

freeBTreeNode(head);

return 1;

}

void printPre(pBTreeNode head)

{

printf("%c %c %c\n", \*head->payload, \*head->left->payload, \*head->right->payload);

return;

}

void freeBTreeNode(pBTreeNode head)

{

free(head->left);

free(head->right);

free(head);

return;

}

Run:

