图形用户界面, 文本

中度可信度描述已自动生成

#include <bits/stdc++.h>

#include <queue>

**using** **namespace** std;

**struct** node {

char v;

node \*lch, \*rch;

node(char i): v(i), lch(**nullptr**), rch(**nullptr**) {}

};

string bo;

node \*build(int index) {

**if** (index > bo.size())

**return** **nullptr**;

**if** (bo[index] == '@')

**return** **nullptr**;

*//cout << "bo[index] = " << bo[index] << endl;*

node \*root = **new** node(bo[index]);

root->lch = build(index \* 2);

root->rch = build(index \* 2 + 1);

**return** root;

}

void bfs\_traverse(node\* root) {

queue<node\*> q;

q.push(root);

node \*current;

**while** (!q.empty()) {

current = q.front();

q.pop();

cout << current->v;

**if** (current->lch)

q.push(current->lch);

**if** (current->rch)

q.push(current->rch);

}

}

void dfs(node \*root) {

**if** (!root)

**return**;

cout << root->v;

dfs(root->lch);

dfs(root->rch);

}

int main() {

cout << "type in bfs order:";

cin >> bo;

bo.insert(0, "-");

node\* root = build(1);

cout << "pre-order generated:";

dfs(root);

cout << endl;

cout << "bfs order:";

bfs\_traverse(root);

**return** 0;

}

*//ABCD@E@@F@@@@*