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//binary into threaded Assignment 5
 #include <iostream>
#include <queue>
using namespace std;
struct Node {
int key;
Node *left, *right;
bool isThreaded;
};
void setQ(Node* root, std::queue <Node*> * q)
if (root == NULL)
return;
if (root->left)
setQ(root->left, q);
q->push(root);
if (root->right)
setQ(root->right, q);
}
void generate_thrdtre(Node* root, std::queue<Node*>* q){
if (root == NULL)
return;
if (root->left)
generate_thrdtre(root->left, q);
q->pop();
if (root->right)
generate_thrdtre(root->right, q);
else {
    root->right=q->front();
    root->isThreaded=true;
}
void createThreaded(Node *root)
std::queue<Node *>q;
setQ(root, &q);
generate_thrdtre(root, &q);
Node* leftMost(Node *root)
while (root != NULL && root->left != NULL)
root = root->left;
return root;
}
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void inOrder(Node *root)
if (root ==NULL)
return;
Node *cur = leftMost(root);
while(cur != NULL) {
cout<< cur->key <<"";</pre>
if(cur->isThreaded)
cur = cur->right;
else
cur=leftMost(cur->right);
Node *createND(int key)
Node *temp=new Node;
temp->left=temp->right=NULL;
temp->key=key;
return temp;
}
int main()
    Node* root= createND(1);
root->left= createND(2);
root->right = createND(3);
root->left->left = createND(4);
root->left->right = createND(5);
createThreaded(root);
cout <<"Threaded tree : ";</pre>
inOrder(root);
return 0;
```