## 树之 习题选讲

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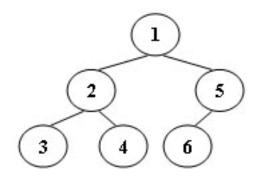


# Tree Traversals Again



## 题意理解

- ■非递归中序遍历
  - □ Push的顺序为先序遍历
  - □ Pop的顺序给出中序遍历



#### Sample Input:

6

Push 1

Push 2

Push 3

Pop

Pop

Push 4

Pop

Pop

Push 5

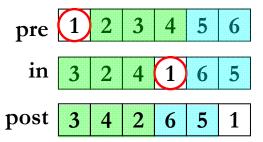
Push 6

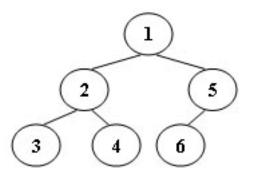
Pop

Pop



### 核心算法





```
void solve( int preL, int inL, int postL, int n )
{    if (n==0) return;
    if (n==1) {post[postL] = pre[preL]; return;}
    root = pre[preL];
    post[postL+n-1] = root;
    for (i=0; i<n; i++)
        if (in[inL+i] == root) break;
    L = i; R = n-L-1;
    solve(preL+1, inL, postL, L);
    solve(preL+L+1, inL+L+1, postL+L, R);
}</pre>
```

