

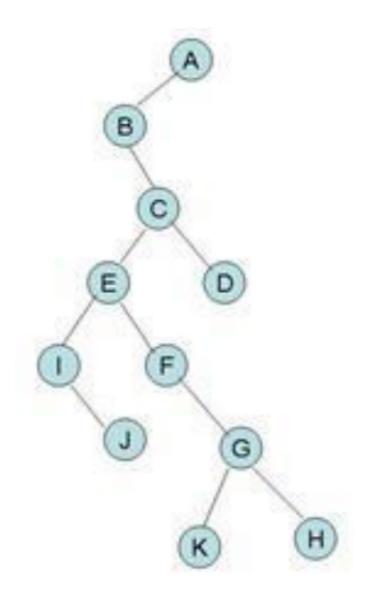
6.2

一个子树

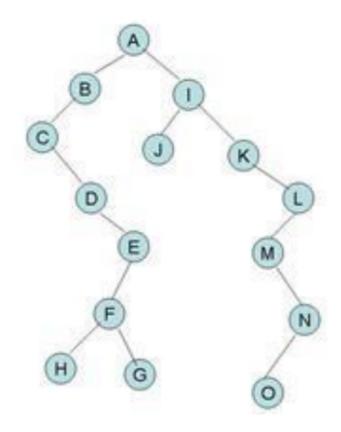
6.3

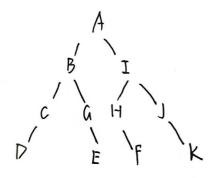
- 1. 只有根结点的二叉树或非叶子结点只有右子树的二叉树
- 2. 只有根结点的二叉树或非叶子结点只有左子树的二叉树
- 3. 只有根节点的二叉树

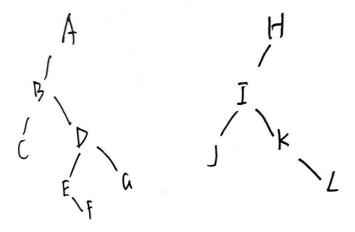
- 1. 第 $m \in k^{m-1}$ 个结点
- 2. $\lfloor \frac{i+k-2}{k} \rfloor$
- 3. $i \cdot k + j (k-1)$
- 4. (i-1),其兄弟编号为i+1

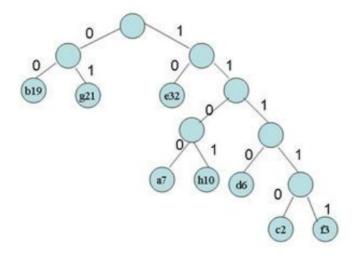


先根遍历序列: ABCEIJFGKHD; 后根遍历序列: BIJEFKGHCDA









- (2) a:1100; b:00; c:11110; d:1110; e:10; f:11111; g:01; h:1101
- (3) 261

```
struct BiTree
{
    int val;
    struct BiTree *left, *right;
};
struct BiTree *change_left_right(struct BiTree *p)
{
    if (p == nullptr)
        return p;
    struct BiTree *temp = p->left;
    p->left = change_left_right(p->right);
    p->right = change_left_right(temp);
    return p;
}
```

```
typedef struct CSNode
   int data;
   struct CSNode *firstchild, *nextsibling;
   CSNode() : firstchild(nullptr), nextsibling(nullptr){};
} CSNode, *CSTree;
int judge_h(CSTree p)
   if (p == nullptr)
        return 0;
   int maxh = 1;
   if (p->firstchild != nullptr)
        maxh += judge_h(p->firstchild);
   CSTree temp = p->nextsibling;
   while (temp != nullptr)
   {
        int temp_h = judge_h(temp);
        maxh = std::max(maxh, temp_h);
        temp = temp->nextsibling;
   return maxh;
}
```

```
struct BiTree
{
    int val;
    struct BiTree *left, *right;
};
int cal_K(struct BiTree *head, int k)
{
    if (head == nullptr)
        return 0;
    if (k == 1)
        return 1;
    else
        return cal_K(head->left, k - 1) + cal_K(head->right, k - 1);
}
```