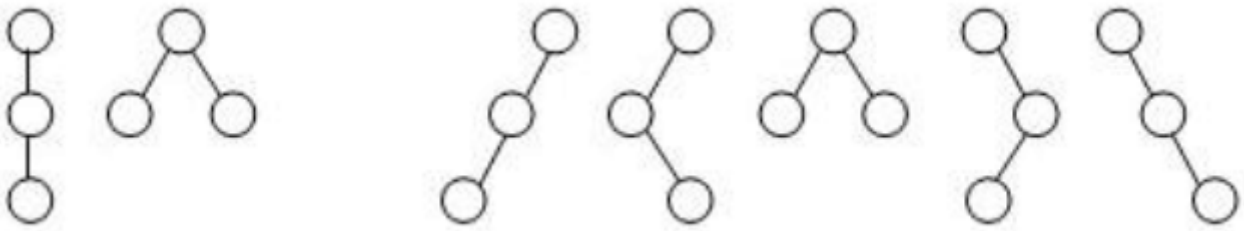


6.1



6.2

一个子树

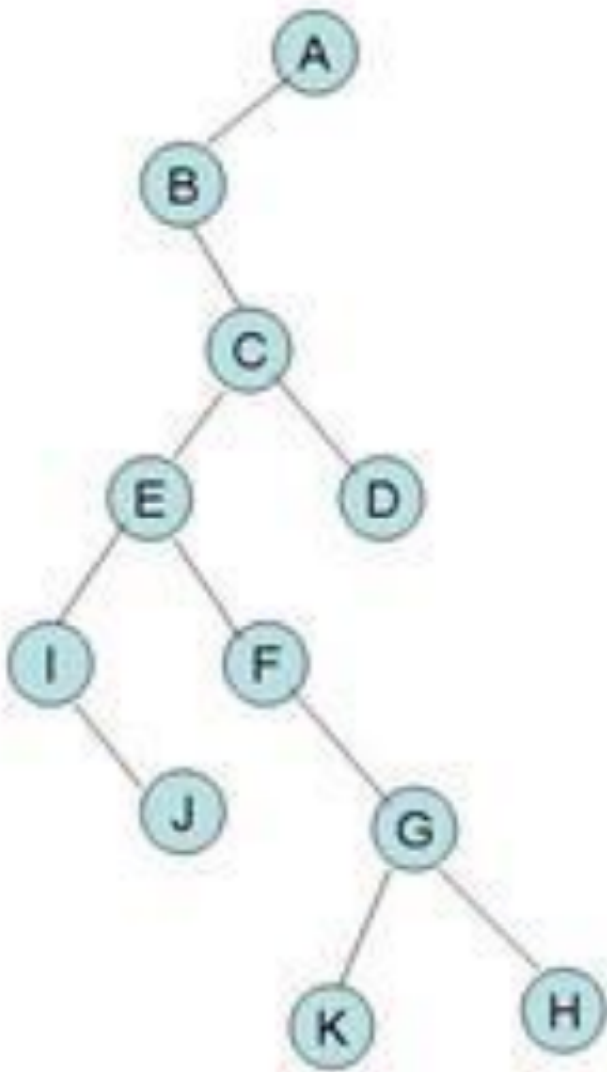
6.3

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. 只有根结点的二叉树
-

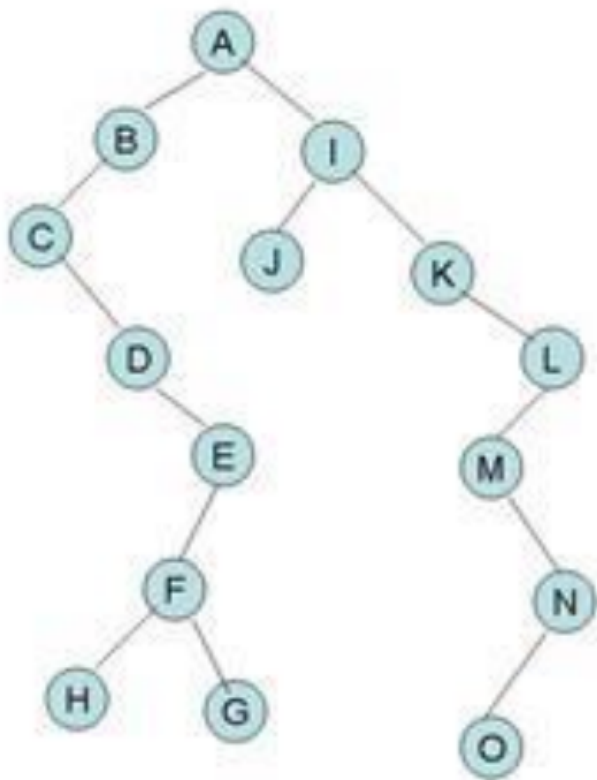
6.4

1. 第 m 层 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 $i + 1$
-

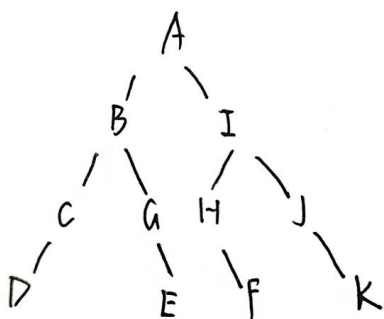
6.8



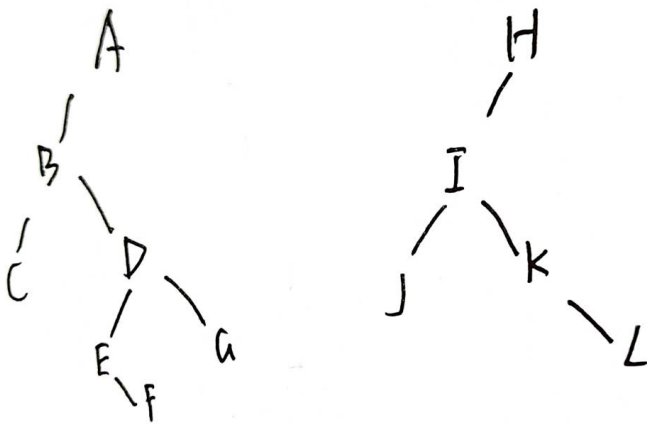
先根遍历序列：ABCEIJFGKHD；后根遍历序列：BIJEFKGHCDA



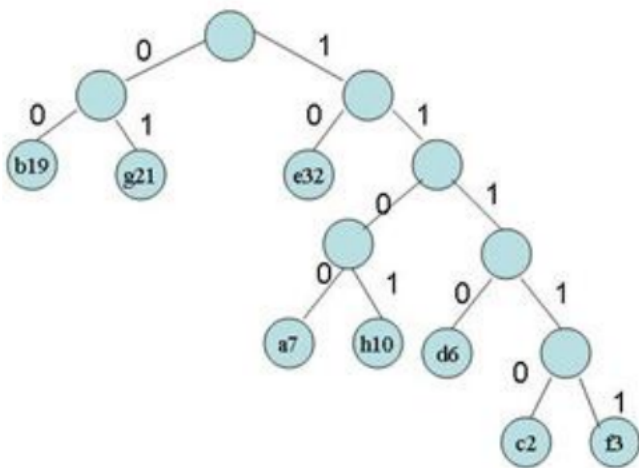
6.11



6.13



6.14



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

(3) 261

6.16

```

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;
}
  
```

6.22

```
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;
}
```

6.23

```
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);
}
```