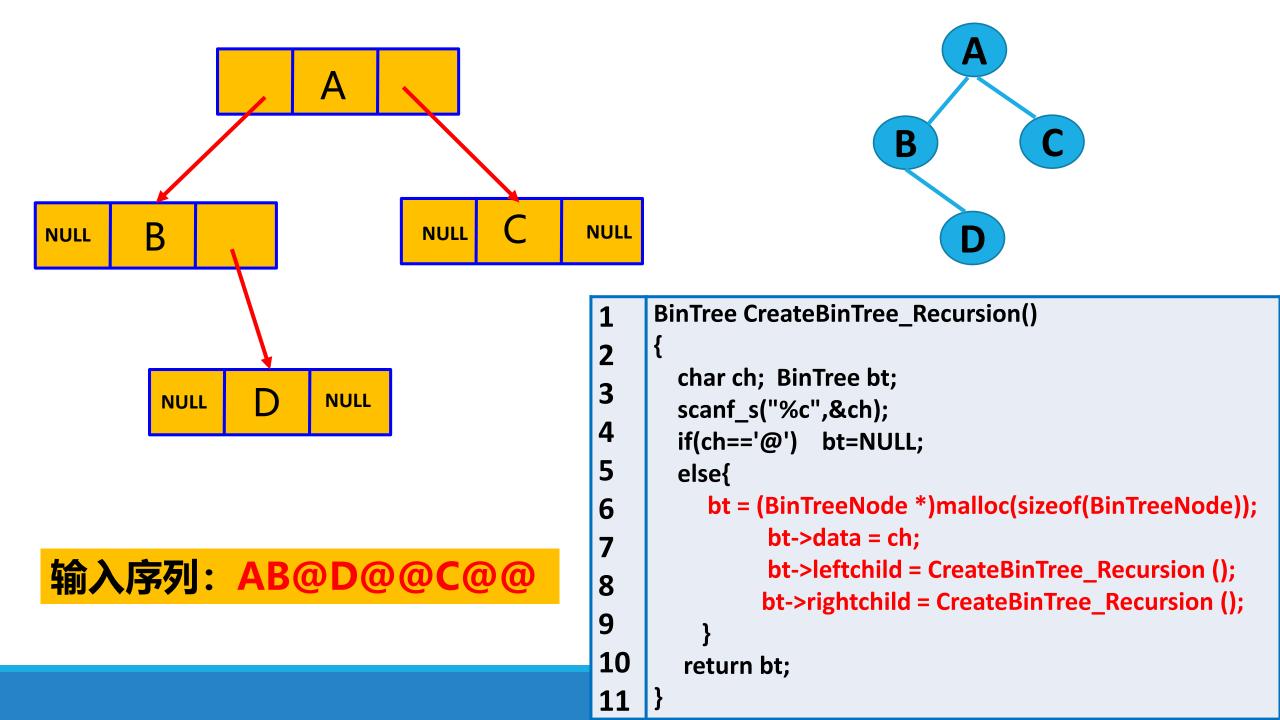
```
BinTree CreateBinTree_Recursion()
3
       char ch; BinTree bt;
       scanf_s("%c",&ch);
       if(ch=='@') bt=NULL;
                                                                    B
6
       else{
             bt = (BinTreeNode *)malloc(sizeof(BinTreeNode));
             bt->data = ch;
             bt->leftchild = CreateBinTree_Recursion ();
             //递归构造左子树
10
             bt->rightchild = CreateBinTree_Recursion ();
11
            //递归构造右子树
12
13
14
        return bt;
15
```



4.9 二叉树的建立和遍历—递归算法

算法4-6

4.9 二叉树的建立和遍历—递归算法

算法4-7

```
void InOrder_Recursion(BinTree bt) //递归中序遍历

f(

if(bt==NULL) return; //如果是空则返回

InOrder_Recursion(bt->leftchild); //递归遍历左子树

printf("%c",bt->data); //访问数据域

InOrder_Recursion(bt->rightchild); //递归遍历右子树

}
```

4.9 二叉树的建立和遍历—递归算法

算法4-8

```
void PostOrder_Recursion(BinTree bt)//递归后序遍历

f(

if(bt==NULL) return; //如果是空则返回

PostOrder_Recursion(bt->leftchild); //递归遍历左子树

PostOrder_Recursion(bt->rightchild);//递归遍历右子树

printf("%c",bt->data); //访问数据域

}
```