

//5.2.5节 算法Father

//在以结点t为根结点的子树中搜索结点p的父结点

```
template <class T>
```

```
BinTreeNode<T>* BinTree<T>::Father(BinTreeNode<T> *t,BinTreeNode<T> *p)
```

```
{
```

```
    BinTreeNode<T> *q ;
```

```
    if ( t == NULL || p==NULL ) return NULL ;
```

```
    if ( t->GetLeft() == p || t->GetRight() == p ) return t ;    //若t为p的父结点，则返回t
```

```
    if ((q = Father ( t->GetLeft() , p ))!= NULL ) return q;    //否则分别在t的左右子树寻找
```

```
    else return Father ( t->GetRight() , p );
```

```
};
```