///5.2.6节 算法 GetValue

```
//利用辅助堆栈S求表达式的值,t为表达式对应二叉树根指针,value为求得的表达式值
void ExprTree:: GetValue(BinTreeNode<string> *t, int &value )
{
     if ( t==NULL)
                      return;
     AStack<int> caculator;
     AStack<AssBinTreeNode<string>*> s;
     AssBinTreeNode<string>* ass,*lass,*rass;
     ass=new AssBinTreeNode<string>();
     ass->SetPtr(t); ass->SetFlag(0);
     s.Push(ass);
     int i=0,operand1=0,operand2=0,result=0;
     while (!s.IsEmpty())
           s.Pop(ass);
           t=ass->GetPtr();
                            i=ass->GetFlag();
           if (i==0)
                ass->SetFlag(1);
                s.Push(ass);
                if((t->GetLeft()) !=NULL)
                {
                      lass=new AssBinTreeNode<string>(t->GetLeft(),0);
                      lass->SetFlag(0);
                      s.Push(lass);
                }
           }
           if (i==1)
                ass->SetFlag(2);
                s.Push(ass);
                if((t->GetRight())!=NULL)
                rass=new AssBinTreeNode<string>(t->GetRight(),0);
                rass->SetFlag(0);
                s.Push( rass);
                }
           }
           if (i==2)
           {
              if(t->GetLeft() ==NULL && t->GetRight()==NULL)
                  int a=0;
                  const char *strin ;
                  strin=(t->GetData()).c_str();
                  a=atoi(strin);
                  caculator.Push(a);
              }
              else
                  caculator.Pop(operand2);
                  caculator.Pop(operand1);
                  string op;
                  op=t->GetData();
                  int result;
                  if (op== "+") { result = operand1 + operand2 ;}
                  if (op== "-" ) { result = operand1 - operand2 ;}
                  if (op== "*") { result = operand1 * operand2 ;}
```