

Search **Computer Graphics** Lab Program Best of This Site Home

## Top Down Parsing in Complier Design Source Code Programming

First include the package and Necessary variable. I use the following function int parse::scannt(char a), void parse::input(),int parse::scant(char b), void parse::process(),void parse::input(), To perform the operation Processing. Compiler Design Source code Programming #include<iostream.h> #include<conio.h> #include<string.h> class parse int nt,t,m[20][20],i,s,n,p1,q,k,j;  $char\ p[30][30], n1[20], t1[20], ch, b, c, f[30][30], fl[30][30];$ public: int scant(char); int scannt(char); void process(); void input(); int parse::scannt(char a) int c=-1,i; for(i=0;i< nt;i++)if(n1[i]==a) return i; return c: int parse::scant(char b) int c1=-1,j; for(j=0;j< t;j++)if(t1[j]==b)return j; return c1; void parse::input() cout << "Enter the number of productions:"; cout<<"Enter the productions one by one"<<endl; for(i=0;i<n;i++) cin>>p[i]; nt=0; t=0; void parse::process() for(i=0;i< n;i++)if(scannt(p[i][0])==-1)n1[nt++]=p[i][0];for(i=0;i< n;i++)for(j=3;j<strlen(p[i]);j++) if(p[i][j]!='e')if(scannt(p[i][j])==-1) if((scant(p[i][j]))==-1)t1[t++]=p[i][j];

no greater love than this	
if you have find any error/fault on my program/article, Please write it back to me(swstudenton@gmail.com). will try to fix it.	í
Search	
Get Updates Via-Email:	
Subscribe	

```
t1[t++]='$';
for(i=0;i< nt;i++)
for(j=0;j<t;j++)
m[i][j]=-1;
for(i=0;i< nt;i++)
cout<<"Enter first["<<n1[i]<<"]:";
cin>>f[i];
for(i=0;i<nt;i++)
cout<<"Enter follow["<<n1[i]<<"]:";
cin>>fl[i];
for(i=0;i<n;i++)
p1=scannt(p[i][0]);
if((q=scant(p[i][3]))!=-1)
m[p1][q]=i;
if((q=scannt(p[i][3]))!=-1)
for(j=0;j < strlen(f[q]);j++)
m[p1][scant(f[q][j])] = i; \\
if(p[i][3]=='e')
for(j=0;j<strlen(fl[p1]);j++)
m[p1][scant(fl[p1][j])]=i;
for(i=0;i<t;i++)
cout<<"\t"<<t1[i];
cout<<endl;
for(j=0;j< nt;j++)
cout << n1[j];
for(i=0;i< t;i++)
cout<<"\t"<<" ";
if(m[j][i]! = -1)
cout << p[m[j][i]];
cout<<endl;
}
void main()
clrscr();
parse p;
p.input();
p.process();
getch();
Top Down Parsing in Complier Design output
Enter the number of productions:8
Enter the productions one by one
E->TA
A->+TA
A->e
T->FB
B->e
B->*FB
F->(E)
F->i
Enter first[E]: (i
Enter first[A]: +e
Enter first[T]: (i
Enter first[B]: *e
Enter first[F]: (i
Enter follow[E]: $)
Enter follow[A]: $)
Enter follow[T]: +)$
Enter follow[B]: +)$
Enter follow[F]: +*)$
+ ( ) i * $
E E->TA E->TA
A A->+TA A->e A->e
T T->FB T->FB
```

```
B B->e B->e B->*FB B->e
F F->(E) F->i
Top down Parsing in Compiler Design Output
Enter the no of productions:
Enter the production one by one:
E->TX
X->+TX
X->e
T->FY
Y->*FY
Y->e
F->(E)
F->i
Enter FIRST[E](i
Enter FIRST[X]+e
Enter FIRST[T](i
Enter FIRST[Y]*e
Enter FIRST[F](i
Enter FOLLOW[E])$
Enter FOLLOW[X])$
Enter FOLLOW[T]+)$
Enter FOLLOW[Y]+)$
Enter FOLLOW[F]*+)$
+ * ( ) i $
E E->TX E->TX
```

## F F->(E) F->i RELATED POST Compiler Lab

X X->+TX X->e X->e T T->FY T->FY

Y Y->e Y->\*FY Y->e Y->e

- How To Write Source code For Recursive Descent Parsing
- How To Write Generation Of Assembly Code in C Programming
- How To Write Three Address Code Generations For Conditional Expressions
- How To Write Generation Of Three Address Code in C Programming
- How To Write Shift Reduce Parsing Source Code in C
- How To Write Token Separation Source Code Programming
- Leading And Trailing Source Code in C Program Complier Design

Labels: Compiler Lab

Newer Post Home Older Post