## **COMMON PROGRAM**

Thursday, 1 March 2012

CONSTRUCTION OF PREDICTIVE PARSER TABLE USING C

## CONSTRUCTION OF PREDICTIVE PARSER TABLE USING C

```
PROGRAM:
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
char fin[10][20],st[10][20],ft[20][20],fol[20][20];
int a=0,e,i,t,b,c,n,k,l=0,j,s,m,p;
clrscr();
printf("enter the no. of coordinates\n");
scanf("%d",&n);
printf("enter the productions in a grammar\n");
for(i=0;i<n;i++)
scanf("%s",st[i]);
for(i=0;i<n;i++)
fol[i][0]='\0';
for(s=0;s< n;s++)
for(i=0;i<n;i++)
j=3;
1=0;
a=0;
11:if(!((st[i][j]>64)&&(st[i][j]<91)))
for(m=0;m<1;m++)
if(ft[i][m]==st[i][j])
goto s1;
ft[i][l]=st[i][j];
1=1+1;
s1:j=j+1;
else
if(s>0)
while(st[i][j]!=st[a][0])
a++;
b=0;
while(ft[a][b]!='\0')
for(m=0;m<1;m++)
if(ft[i][m] == ft[a][b])
goto s2;
ft[i][l]=ft[a][b];
1=1+1;
s2:b=b+1;
```

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About Me



KAMALATSHAN N PARAMAKUDI. TAMILNADU, India View my complete

```
while(st[i][j]!='\backslash 0')
if(st[i][j] \!\! = \!\! = \!\! '|')
j=j+1;
goto 11;
j=j+1;
ft[i][1]='\0';
printf("first pos\n");
for(i=0;i<n;i++)
printf("FIRS[\%c]=\%s\n",st[i][0],ft[i]);
fol[0][0]='$';
for(i=0;i<n;i++)
k=0;
j=3;
if(i==0)
1=1;
else
1=0;
k1\!:\!while((st[i][0]!\!=\!st[k][j])\&\&(k\!<\!n))
if(st[k][j] == ' \backslash 0')
k++;
j=2;
j++;
j=j+1;
if(st[i][0]==st[k][j-1])
if((st[k][j]!='|')&&(st[k][j]!='\setminus 0'))
a=0;
if(!((st[k][j]>64)\&\&(st[k][j]<91)))
for(m=0;m<1;m++)
if(fol[i][m]==st[k][j])
goto q3;
fol[i][l]=st[k][j];
1++;
q3:
else
while(st[k][j]!=st[a][0])
a++;
while(ft[a][p]!='\0')
if(ft[a][p]! = '@')\\
for(m=0;m<1;m++)
if(fol[i][m] == ft[a][p])
goto q2;
fol[i][l]=ft[a][p];
1=1+1;
```

```
e=1;
q2:p++;
if(e==1)
e=0;
goto a1;
else
a1:c=0;
a=0;
while(st[k][0]!=st[a][0])
a++;
while((fol[a][c]!='\0')\&\&(st[a][0]!=st[i][0]))\\
for(m=0;m<1;m++)
if(fol[i][m]==fol[a][c])
goto q1;
fol[i][l]=fol[a][c];
1++;
q1:c++;
goto k1;
fol[i][1]='\0';
printf("follow pos\n");
for(i=0;i<n;i++)
printf("FOLLOW[%c]=%s\n",st[i][0],fol[i]);
printf("\n");
s=0;
for(i=0;i< n;i++)
j=3;
while(st[i][j]!='\0')
if((st[i][j-1]=='|')||(j==3))
for(p=0;p<=2;p++)
fin[s][p]=st[i][p];
for(p=3;((st[i][j]!='|')\&\&(st[i][j]!='\backslash 0'));p++)
fin[s][p] = st[i][j];
j++;
fin[s][p]='\0';
if(st[i][k]=='@')
while(st[a][0]!=st[i][0])
a++;
while (fol[a][b]!='\0')
printf("M[\%c,\%c]=\%s\n",st[i][0],fol[a][b],fin[s]);
b++;
```

```
else if(!((st[i][t]>64)&&(st[i][t]<91)))
printf("M[\%c,\%c]=\%s\n",st[i][0],st[i][t],fin[s]);\\
b=0;
a=0;
while(st[a][0]!=st[i][3])
a++;
while(ft[a][b]!='\setminus 0')
printf("M[%c,%c]=%s\n",st[i][0],ft[a][b],fin[s]);
b++;
S++;
if(st[i][j]=='|')
j++;
getch();
OutPut:
Enter the no. of co-ordinates
Enter the productions in a grammar
S->CC
C->eC | d
First pos
FIRS[S] = ed
FIRS[C] = ed
Follow pos
FOLLOW[S] =$
FOLLOW[C] = ed$
M[S, e] = S - > CC
M[S, d] = S - > CC
M[C, e] = C - > eC
M[C, d] = C - d
Posted by KAMALATSHAN N at 09:14
                                     >
  19 comments:
  е
        earliest.than you once again sir
        Reply
```

Thank you so much sir for the program it is really really very helpful as iwas unable to complete it on my own ...it was really really very helpful...i have a few doubts i would be really grateful if you can clear them by the

Replies



KAMALATSHAN N 27 March 2012 at 09:51

Thanks for your feedback send me your bug coding i will clear it......

Reply



Sakthi Vel 7 August 2013 at 22:54

thank you so much brother....

Reply

Replies



KAMALATSHAN N 9 August 2013 at 08:41

Thanks for your comment...

Vyanktesh Kanungo 22 February 2014 at 07:29

sir thanks for the program! but there are few errors..need some help

Reply

Replies



KAMALATSHAN N 24 February 2014 at 23:23

PUT YOUR ERROR DETAILS AND I WILL DEBUGG......

Reply



Mansi Kataria 11 May 2014 at 01:18

This program was a great help...thankyou...

Reply

devendra kumar 20 October 2014 at 09:58

what is the input for NULL production like X->NULL

Reply

Mahesh 8 January 2015 at 05:22

follow answer seems not correct

Reply

Replies



KAMALATSHAN N 16 January 2015 at 02:07

GIVE ME THE ERROR

Reply



mandava sudheep 25 February 2015 at 21:13

give me the stack implementation along with table

Reply

raman deep singh Walia 19 April 2015 at 06:51

Thnx Sir, it is great, and i underantand the working of First set and Follow set. but please clearify what is the last set in your output section?

i mean what you write after the follow section. is it the select operation or M table or the parsing table.

Reply

Reply

raman deep singh Walia 19 April 2015 at 06:52

Or one more question sir , what to take for the null production.please answer my both questions sir.. Thankyou Sir

Amrin 22 April 2015 at 01:09

Hello sir, i have tried your code with below input but program calculates first and then system hangs what to do?

generate Predictive Parsing Table for the given grammar.

S -> ABE | a | f A -> p | t | w B -> Aq

thanks in advance....

Reply

Unknown 21 September 2015 at 23:42

please explain the program execution and why s is used in program,  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

Reply



मुरदा आदमी 8 February 2016 at 09:07

If error occors in line 105 i.e q3: then add z=0;. It looks like "q3: z=0; ". Above "q3: z=0; " write "int z;" and run.

Hope it helps. Reply ASHWINI WANNALIKAR 8 March 2016 at 00:44 what is after q3: label?? In line number 102. please reply. Reply PUSHPAK BHUSARI 12 March 2016 at 00:33 goood one Reply Unknown 21 April 2016 at 10:51 how to enter E->e where e denote empty production? Reply Enter your comment... Comment as: Avishek Roy (( ▼ Sign out ☐ Notify me Publish

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