World of Angel

C,c++, Java programs. Feel free to post your questions.

Friday, August 27, 2010

C PROGRAM - OPERATOR PRECEDENCE PARSER

```
/*OPERATOR PRECEDENCE PARSER*/
#include<stdio.h>
#include<conio.h>
void main()
char stack[20],ip[20],opt[10][10][1],ter[10];
int i,j,k,n,top=0,col,row;
clrscr();
for(i=0;i<10;i++){stack[i]=NULL; ip[i]=NULL;}
for(j=0;j<10;j++)\{opt[i][j][1]=NULL;\}\}
printf("Enter the no.of terminals:");
scanf("%d",&n);
printf("\nEnter the terminals:");
scanf("%s",ter);
printf("\nEnter the table values:\n");
for(i=0;i<n;i++)
for(j=0;j< n;j++)
printf("Enter the value for %c %c:",ter[i],ter[j]);
scanf("%s",opt[i][j]);
}
printf("\nOPERATOR PRECEDENCE TABLE:\n");
for(i=0;i<n;i++){printf("\t%c",ter[i]);}</pre>
printf("\n");
for(i=0;i<n;i++){printf("\n%c",ter[i]);
for(j=0;j<n;j++){printf("\t%c",opt[i][j][0]);}}
stack[top]='$';
printf("\nEnter the input string:");
scanf("%s",ip);
printf("\nSTACK\t\tINPUT STRING\t\tACTION\n");
printf("\n%s\t\t\t%s\t\t\t",stack,ip);
while(i<=strlen(ip))
for(k=0;k<n;k++)
if(stack[top]==ter[k])
col=k;
if(ip[i]==ter[k])
row=k;
if((stack[top]=='\$')\&\&(ip[i]=='\$')){}
printf("String is accepted");
break;}
else if((opt[col][row][0]=='<') ||(opt[col][row][0]=='='))
{ stack[++top]=opt[col][row][0];
stack[++top]=ip[i];
printf("Shift %c",ip[i]);
```

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C PROGRAM - OPERATOR PRECEDENCE PARSER

OPERATOR PRECEDENCE TABLE

SLR PARSING TABLE

C program- LL1 grammar

JAVA PROGRAM WITHOUT **USING BIG INTEGER**

```
else{
if(opt[col][row][0]=='>')
while(stack[top]!='<'){--top;}
top=top-1;
printf("Reduce");
}
else
printf("\nString is not accepted");
break;
}
printf("\n");
for(k=0;k<=top;k++)
printf("%c",stack[k]);
}
printf("\t\t");
for(k=i;k < strlen(ip);k++){}
printf("%c",ip[k]);
}
printf("\t\t");
}
getch();
}
```

Posted by Aaron Angel at 8:43 PM

4 comments:



Nirmal Tariq January 17, 2014 at 8:36 AM

can you please tell what to place in table where no value is supposed to b present? i mean for no precedence between two terminals what should i place when it asks for the value?

Reply



Neha N July 20, 2015 at 5:57 AM

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8

anuradha October 31, 2015 at 9:21 AM

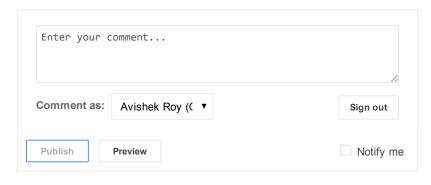
What is the output for this can any1 send me Reply

е

anuradha October 31, 2015 at 9:29 AM

What is the output for this can any1 send me

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