PROGRAMS IN DIFFERENT LANGUAGES

THURSDAY, JANUARY 21, 2010

OPERATOR PRECEDENCE PARSER

```
#include stdio.h
#include string.h
#include conjo.h
char stack[20], stack1[20], next, s[10];
int top=-1:
char prod[9][10]={
">><<<;",
">><<<;",
">>>><,,
">>>><...".
">>>><...".
">>>>ee>>",
"<<<<=e".
">>>>ee>>",
"<<<<{};
char G[7][6]={
^{\prime\prime}E->E+E^{\prime\prime},
"/E-E",
"/E*E",
"/E/E",
"/(E)",
" /i "
};
int main()
char symbol;
int i=o,flag=o;
int j,k;
clrscr():
printf("Grammar\n");
for(j=0;j<7;j++)
for(k=0;k<6;k++)
printf("%c",G[j][k]);
printf("\n");
printf("\n\n OPERATOR PRECEDENCE RELATIONS \n");
printf("\%c\t\%c\t\%c\t\%c\t\%c\t\%c\t\%c\t\%c\t\%','+','-','*','/','^','i','(',')','\$');
\operatorname{for}(j{=}0;j{<}9;j{+}{+})
for(k=0;k<10;k++)
printf("%c\t",prod[j][k]);
printf("\n");
printf("Enter the string : ");
gets(s);
++top;
stack[top]='$';
next=s[i];
while(1)
if(stack[top]=='$'&& next=='$'||next=='\o')
break:
```

```
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```

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```
else
symbol = prod[f(stack[top])][f(next)];\\
if(symbol=='<'||symbol=='=')
stack[++top]=symbol;
stack[++top]=next;
else if(symbol=='>')
do
top--;
}while(stack[top]!='<');</pre>
stack[++top]=next;
if(next!='$')
\operatorname{for}(j{=}0;j{<}{=}\operatorname{top};j{+}{+})
stack1[j]=stack[j];
stack1[j]=symbol;
}
else
_{\rm flag=1;}
next=s[++i];
}
}
printf("\n STACK : ");
for(j=0;j<=top;j++)
printf("%c",stack1[j]);
printf("%c",'$');
if(flag==0)
printf("\n\n Accepted");
printf("Rejected");
return o;
}
int f(char ch)
{
switch(ch)
{
case '+':return o;
case '-':return 1;
case '*':return 2;
case '/':return 3;
case '^':return 4;
case 'i':return 5;
case '(':return 6;
case')':return 7;
case '$':return 8;
default:
{
printf("\n ERROR ");
exit(o);
}
}
}
OUTPUT:
OPERATOR PRECEDENCE RELATIONS
+-*/^i()$
```

>><<<<>>>		
>><<<<>>>		
>>>><		
>>>><		
>>>><		
>>>>ee>>		
< < < < < < = e		
>>>>ee>>		
<<<< <e e<="" td=""><td></td><td></td></e>		
Enter the string : i + i @ i \$ ERROR		
Enter the string : i +i*i\$ STACK : \$<+<*>\$ Accepted		
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