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/*********
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*****************
#include<stdio.h>
#include<ctype.h>
#define SIZE 100
char stack[SIZE];
int TOP = -1;
void push(char c){
if (TOP ==SIZE-1)
return;
else {
TOP++i
stack[TOP] = c;
char pop(){
if (TOP ==-1)
return '\0';
else{
char c = stack[TOP];
TOP--;
return c;
int precedence(char c){
if (c=='^') return 3;
else if (c=='*' || c=='/') return 2;
else if (c=='+' | c=='-') return 1;
else return 0;
void infixToPostfix(char infix[], char postfix[]){
char ch ;
int i = 0, j=0;
for(i=0; infix[i] !='\0'; i++){
ch = infix[i];
if(isdigit(ch))
postfix[j++] = ch;
else if (ch=='('){
push(ch);
else if (ch ==')'){
char popedChar = pop();
while(popedChar !='('){
postfix[j++] =popedChar;
popedChar = pop();
else {
while( TOP!=-1 && precedence(stack[TOP]) ==preceden
ce(ch)){
postfix[j++] = pop();
push(ch);
}
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while(TOP !=-1){
postfix[j++] =pop();
postfix[j] = '\0';
int evalPostfix(char postfix[]){
int S2[32];
int top =-1;
int i = 0;
int a,b;
char ch;
\label{eq:while((ch=postfix[i++]) != '\0'){}} \\
if (isdigit(ch)){
S2[++top] = ch - '0';
else{
a = S2[top--];
b = S2[top--];
switch(ch){
case '+': S2[++top] = b+a; break;
case '-': S2[++top] = b-a; break;
case '*': S2[++top] = b*a; break;
case '/': S2[++top] = b/a; break;
int result = S2[top];
return result;
void main(){
char postfix[SIZE] ,infix[SIZE];
printf("Enter the infix value (don't enter white spa
ce) : ");
scanf("%s", infix);
infixToPostfix(infix, postfix);
printf("\nPostfix exp : %s\n", postfix);
int result = evalPostfix(postfix);
printf("result = %d\n", result);
Enter the infix value (don't enter white space) : (3
+2)*5
Postfix exp : 32+5*
result = 25
*********
/************OUTPUT
// Compiled successfully. Press ■ Run.
// Enter the infix value (don't enter white space) :
(2*3)+2(2*3)+2
// (2*3)+2
//
// Postfix exp : 23*2+
// result = 8
  *************
```