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# Infix To Postfix Conversion And Expression Evaluation

Code Id 19
Date Updated 3/7/2010

Title infix to postfix conversion and expression evaluation

Description

This is a program for conversion of infix expression to postfix expression and ev

#### **Codes Snippet**

```
#include
#include
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#define Blank '
#define Tab 't'
#define MAX 50
long int pop ();
long int eval_post();
infix_to_postfix();
push(char);
prec(char);
white_space(char);
char infix[MAX], postfix[MAX];
long int stack[MAX];
int top;
main()
         long int value;
char choice='y';
         while(choice == 'y')
                   top = 0;
printf("Enter infix : ");
                   fflush(stdin);
                   gets(infix);
                   infix_to_postfix();
printf("Postfix : %sn",postfix);
                   value=eval_post();
                  printf("Value of expression : %ldn",value);
printf("Want to continue(y/n) : ");
                   scanf("%c",&choice);
}/*End of main()*/
infix_to_postfix()
         int i,p=0,type,precedence,len;
         char next;
stack[top]='#'
         len=strlen(infix);
         infix[len]='#'
         for(i=0; infix[i]!='#';i++)
         if( !white_space(infix[i]))
                   {
                             switch(infix[i])
                                      push(infix[i]);
                                      break;
                             case ')'
                                      while((next = pop()) != '(')
                                                postfix[p++] = next;
                                      break:
                            case
                            case
                            case
                                  '/':
                             case
```

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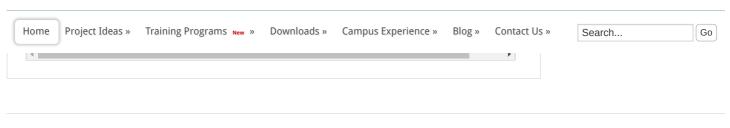
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         while(stack[top]!='#')
         postfix[p++] = pop();
postfix[p] = '' ; /*End postfix with'' to make it a string*/
 }/*End of infix_to_postfix()*/
 /* This function returns the precedence of the operator */
 prec(char symbol )
         switch(symbol)
         case '(':
                  return 0;
         case '+':
         case '-'
                  return 1:
          case
         case '/':
                1%1:
         case
                  return 2;
         case '^':
                  return 3;
         }/*End of switch*/
 }/*End of prec()*/
 push(long int symbol)
         if(top > MAX)
         {
                  printf("Stack overflown");
                  exit(1);
         else
          {
                  top=top+1;
                  stack[top] = symbol;
 }/*End of push()*/
 long int pop()
         if (top == -1)
                  printf("Stack underflow n");
                  exit(2);
         else
                  return (stack[top--]);
 }/*End of pop()*/
 white_space(char symbol)
         if( symbol == Blank || symbol == Tab || symbol == '')
                  return 1;
         else
                  return 0;
 }/*End of white_space()*/
 long int eval_post()
         long int a,b,temp,result,len;
          int i;
          len=strlen(postfix);
         postfix[len]='#';
          for(i=0;postfix[i]!='#';i++)
                  if(postfix[i]<='9' && postfix[i]>='0')
                          push( postfix[i]-48 );
                  else
                  {
                          a=pop();
                          b=pop();
                           switch(postfix[i])
                           case
                                   temp=b+a; break;
                           case
                                   temp=b-a;break;
                           case
                                   temp=b*a;break;
                                   temp=b/a;break;
```

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