30/09/2020

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Week 3 - Connecting Infix to Postfin

WAP to connect a given valid parenthesized infix anthmetic expression to postfix expression. The expression consists of single character operands and lunary operands +, -, * and /.

Algorithm:

Step 1: Stack precedence function F:

Bucitch (symbol)

0010 (1)

(ase '-' return ?;

(ase '*':

(all! /: return 4;

Care '1':

case \$ return 5;

Court

(are (): return 0;

(ace # : return -1;

défault : return 8;

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Step 2: Input precedence function G:

sweitch (symbol)

```
ease (+):
    case - return 1;
   (au '* :
   case 1/2: return 3;
   Case ( A):
   (asi f: extrem 6;
   Case ( ): return 9;
   (ase ') ': return 0;
  difault: return 7;
wed and Step 3: Nethod to Emplement conversion from
             infin to poetfin (infin poetfin)
             top=-13
             S[++top]= (#)
         for(i=0; i<strlen(infix); i++)
               nehile (stackpundence > Input precidence)
                   poetfix[j]=S[top--]; // Pop from
            if (Stack pundence ! = Input percedence)
```

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S[++top] = symbol //Push symbol to stack
elu
top --; //Pap symbol without storing

nehile (SCtop]!='#')

poetfix[j++]=8[top--];

poetfix[j]='\0';

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Step 4: Main function:

Enter infix expussion and store in injint]
Step 5: (all infix-postfix:

infix-postfix (infix, poetfix);

Step 6: Print the connected postfix as expression