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PROGRAM TO IMPLEMENT RECURSIVE **DESCENT PARSER**

Posted By: Adalberto Fischer Category: C++ Programming

#include <iostream.h>

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PROGRAM TO IMPLEMENT RECURSIVE DESCENT PARSER.

Code for PROGRAM TO IMPLEMENT RECURSIVE DESCENT PARSER in C++ **Programming**

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
typedef struct treenode
    char info;
    treenode *left;
    treenode *right;
}node;
    node * proc e(char input[],int &ssm);
    node * proc_t(char input[],int &ssm);
    node * proc_v(char input[],int &ssm);
    void traversal(node *temp);
void main()
    char input[20];
    int ssm=0;
    node *root;
    clrscr();
    cout << endl << "ENTER THE STRING TO BE PARSED:";
    cin>>input;
    root = proc_e(input,ssm);
cout<<endl<<"CONTENTS OF THE PARSE TREE:";</pre>
    traversal(root);
    getch();
void traversal (node *temp)
   if(temp != NULL)
    traversal(temp->left);
    cout << temp->info;
    traversal(temp->right);
//PROCEDURE FOR NT E:
node * proc_e(char input[],int &ssm)
    node *a, *b;
    a=proc t(input,ssm);
    while(input[ssm] == '+')
        ssm++;
```

```
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```
b=proc_t(input,ssm);
        node *temp;
        temp=new node; //(node*)malloc(sizeof(node));
        temp->info='+';
        temp->left=a;
        temp->right=b;
        a=temp;
    return a;
//PROCEDURE FOR NT T:
node * proc_t(char input[],int &ssm)
    node *a,*b;
    a=proc_v(input,ssm);
    ssm = ssm + 1;
    while(input[ssm] == '*')
        ssm++;
        b=proc_v(input,ssm);
        node *temp;
        temp=new node;//(node *)malloc(sizeof(node));
        temp->info='*';
        temp->left=a;
        temp->right=b;
        a=temp;
        ssm = ssm +1;
    return a;
//PROCEDURE FOR NT V:
node * proc_v(char input[],int &ssm)
    node *a;
    if(input[ssm] == 'I')
        node *temp;
        temp=new node; //(node*)malloc(sizeof(node));
        temp->info='I';
        temp->left=NULL;
        temp->right=NULL;
        return temp;
    else
        cout<<endl<<"ERROR. INVALID SYMBOL "<<input[ssm];</pre>
        getch();
        exit(0);
```

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Adalberto Fischer author of PROGRAM TO IMPLEMENT RECURSIVE DESCENT PARSER is from Frankfurt, Germany.

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