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Roll No 53

## Program:

```
CD > Pract6 > C prog.c > ...
 1 #include <stdio.h>
2 #include <string.h>
 3 void E();
4 void T();
5 void F();
 6 void Tds();
7 void Eds();
8 char input[100];
9 int i, error = 0;
 10
 11 void main() {
 printf("Please Enter the Input: \n");

scanf("%s", input);

E();

if (i == strlen(input) && error == 0) {

printf("\nstring is Accepted");
          printf("\nString is Accepted");
 16
 17
        } else {
 20 }
 21 void E() {
 22
 23
 24
       void T() {
       F();
Tds();
 26
 27
 28
       void Eds() {
       if (input[i] == '+') {
 30
        i++;
T();
Eds();
 31
 32
 33
 34
 35
       void Tds() {
      if (input[i] == '*') {
   i++;
   F();
 37
 39
 40
        Tds();
 41 }
 42 }
43 void F() {
 44 \rightarrow if (input[i] == 'a') {
          i++;
} else if (input[i] == '(') {
 45
 46
          i++;
E();
 47
 48
           if (input[i] == ')') {
    i++;
 49
 50
           } else {
 51 ~
           error = 1;
}
 52
 53
 54
         } else {
 55
           error = 1;
        }
 56
 57 }
```

## Output:

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\5th-Sem-Practicals> cd .\CD\Pract6\
PS D:\5th-Sem-Practicals\CD\Pract6> gcc prog.c

PS D:\5th-Sem-Practicals\CD\Pract6> ./a.exe
Please Enter the Input:
a+a+a

String is Accepted
PS D:\5th-Sem-Practicals\CD\Pract6>