Recrusive descent :

#include <stdio.h>

int c=0;

char p[20];

void s();

void l();

void lprime();

void l()

{

s();

lprime();

}

void lprime()

{

if(p[c]==',')

{

c++;

s();

lprime();

}

}

void s()

{

if(p[c]=='a')

c++;

else if(p[c]=='(')

{

c++;

l();

if(p[c]==')')

c++;

else

c--;

}

else

printf("\ninvalid expression");

}

int main()

{

printf("\n implementation of RECURSIVE DECENT PARSER\n");

printf("\nenter the expression:\n");

scanf("%s",p);

s();

if(p[c]=='$')

printf("\n string is accepted");

else

printf("\n string is rejected");

}

Output:

