Program:

#include<stdio.h>

#include<ctype.h>

char stack[100];

int top = -1;

void push(char x)

{

stack[++top] = x;

}

char pop()

{

if(top == -1)

return -1;

else

return stack[top--];

}

int priority(char x)

{

if(x == '(')

return 0;

if(x == '+' || x == '-')

return 1;

if(x == '\*' || x == '/')

return 2;

return 0;

}

int main()

{

char exp[100];

char \*e, x;

printf("Enter the expression : ");

scanf("%s",exp);

printf("\n");

e = exp;

while(\*e != '\0')

{

if(isalnum(\*e))

printf("%c ",\*e);

else if(\*e == '(')

push(\*e);

else if(\*e == ')')

{

while((x = pop()) != '(')

printf("%c ", x);

}

else

{

while(priority(stack[top]) >= priority(\*e))

printf("%c ",pop());

push(\*e);

}

e++;

}

while(top != -1)

{

printf("%c ",pop());

}return 0;

}

Output :

