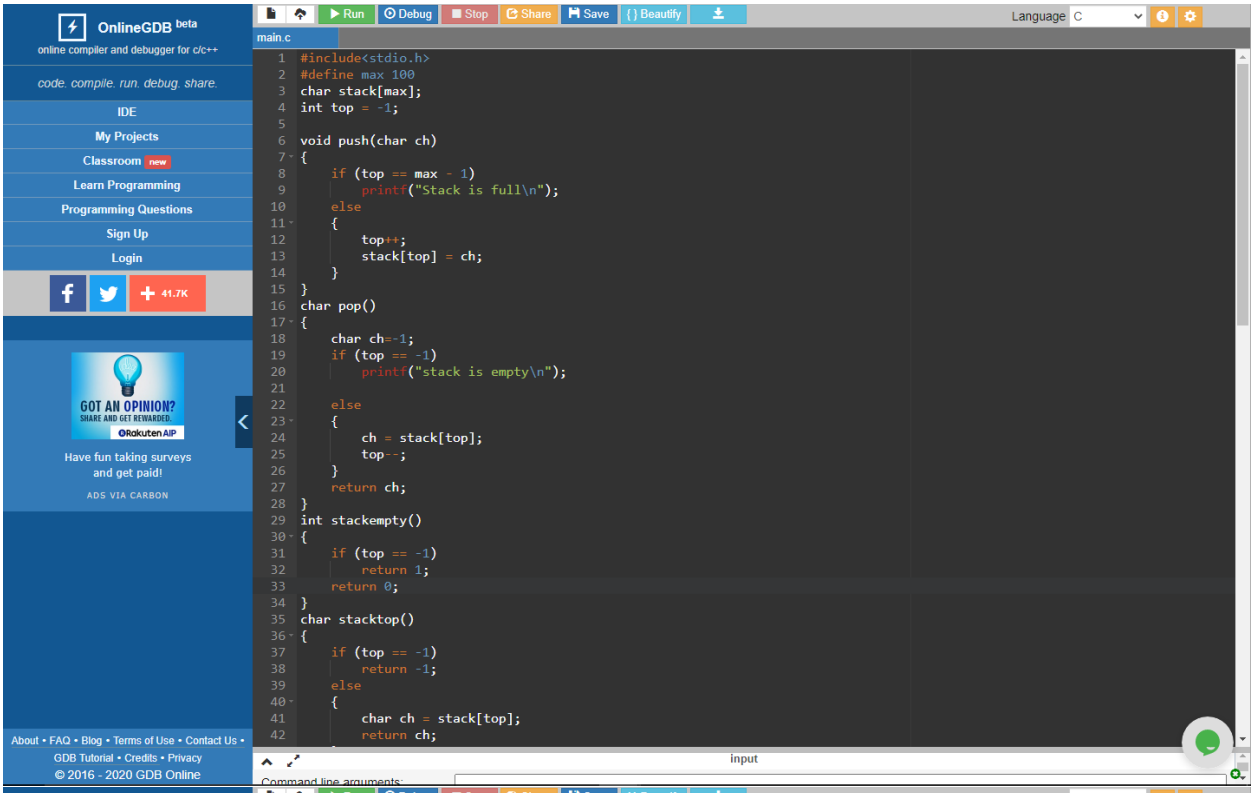
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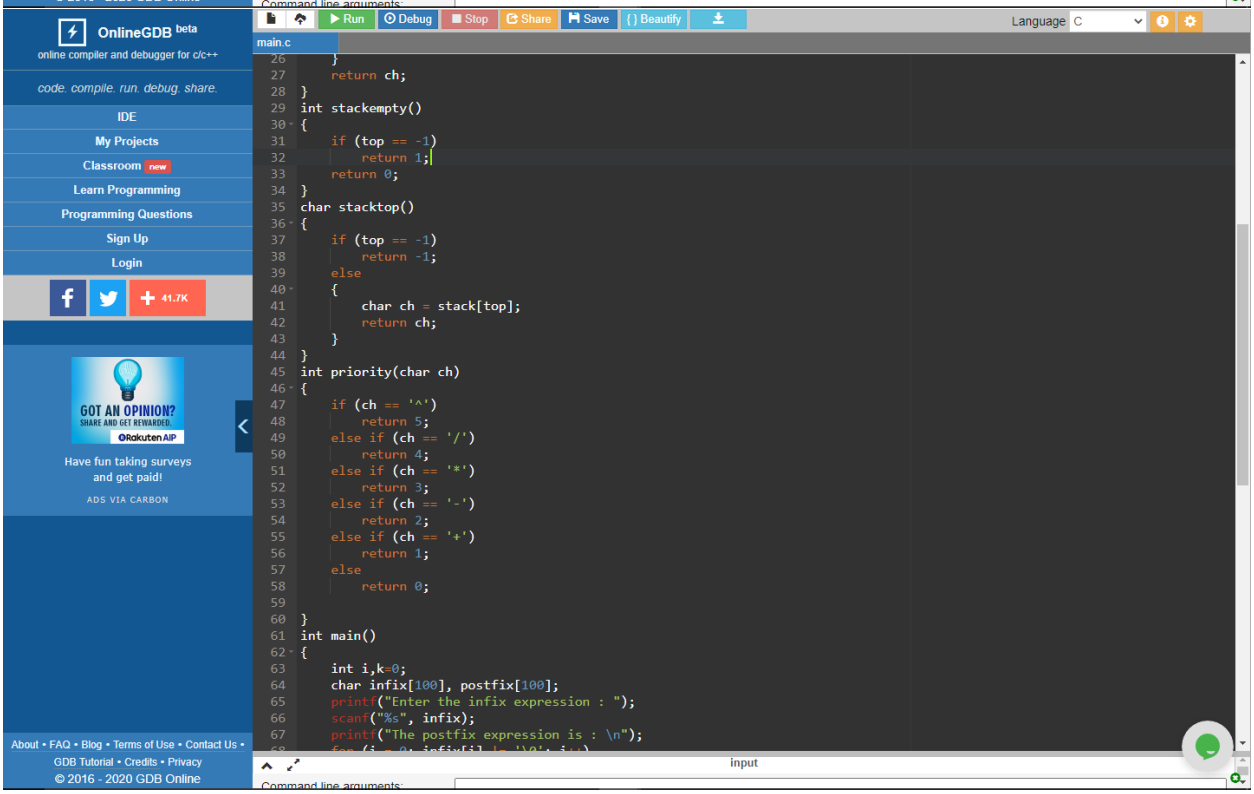
{ } Beautify
Language C
main.c
#include<stdio.h>
#define max 100
char stack[max];
int top = -1;
void push(char ch)
{
if (top == max - 1)
printf("Stack is full\n");
else
{
top++;
stack[top] = ch;
}
}
char pop()
{
char ch=-1;
if (top == -1)
printf("stack is empty\n");
else
{
ch = stack[top];
top--;
}
return ch;
}
int stackempty()
{
if (top == -1)
return 1;
return 0;
}
char stacktop()
{
if (top == -1)
return -1;
else
{
char ch = stack[top];
return ch;
input
Command line arguments: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{ } Beautify
Language C
main.c
}
return ch;
}
int stackempty()
{
if (top == -1)
return 1;
return 0;
}
char stacktop()
{
if (top == -1)
return -1;
else
{
char ch = stack[top];
return ch;
}
}
int priority(char ch)
{
if (ch == '^')
return 5;
else if (ch == '/')
return 4;
else if (ch == '*')
return 3;
else if (ch == '-')
return 2;
else if (ch == '+')
return 1;
else
return 0;
}
int main()
{
int i,k=0;
char infix[100], postfix[100];
printf("Enter the infix expression : ");
scanf("%s", infix);
printf("The postfix expression is : \n");
input
Command line arguments:

Run | Debug | Stop | Share | Save | { } Beautify | Language C

main.c

```c
    char infix[100], postfix[100];
    printf("Enter the infix expression : ");
    scanf("%s", infix);
    printf("The postfix expression is : \n");
    for (i = 0; infix[i] != '\0'; i++)
    {
        if (infix[i] == '(')
        {
            push(infix[i]);
        }
        else if (infix[i] == ')')
        {
            while (stacktop() != '(')
            {
                postfix[k] = pop();
                k++;
            }
            pop();
        }
        else if (infix[i] == '^' || infix[i] == '/' || infix[i] == '*' || infix[i] == '-' || infix[i] == '+')
        {
            while(stackempty() == 0 && priority(stacktop()) >= priority(infix[i]))
            {
                postfix[k] = pop();
                k++;
            }
            push(infix[i]);
        }
        else
        {
            postfix[k] = infix[i];
            k++;
        }

    }
    while(!stackempty())
    {
        postfix[k] = pop();
                k++;
    }
    for(i=0;i<k;i++)
    {
```

input

Command line arguments:

Run | Debug | Stop | Share | Save | { } Beautify | Language C

main.c

```c
    printf("The postfix expression is : \n");
    for (i = 0; infix[i] != '\0'; i++)
    {
        if (infix[i] == '(')
        {
            push(infix[i]);
        }
        else if (infix[i] == ')')
        {
            while (stacktop() != '(')
            {
                postfix[k] = pop();
                k++;
            }
            pop();
        }
        else if (infix[i] == '^' || infix[i] == '/' || infix[i] == '*' || infix[i] == '-' || infix[i] == '+')
        {
            while(stackempty() == 0 && priority(stacktop()) >= priority(infix[i]))
            {
                postfix[k] = pop();
                k++;
            }
            push(infix[i]);
        }
        else
        {
            postfix[k] = infix[i];
            k++;
        }

    }
    while(!stackempty())
    {
        postfix[k] = pop();
                k++;
    }
    for(i=0;i<k;i++)
    {
        printf("%c",postfix[i]);
    }
}
```

input

Command line arguments: