Postfix expression evaluation

```c
#include<stdio.h>
int stack[20];
int top = -1;

void push(int x)
{
    stack[++top] = x;
}

int pop()
{
    return stack[top--];
}

int main()
{
    char exp[20];
    char *e;
    int n1,n2,n3,num;
    printf("Enter the expression : ");
    scanf("%s",exp);
    e = exp;
    while(*e != '\0')
    {
```

```c
if(isdigit(*e))
{
    num = *e - 48;
    push(num);
}
else
{
    n1 = pop();
    n2 = pop();
    switch(*e)
    {
    case '+':
    {
        n3 = n1 + n2;
        break;
    }
    case '-':
    {
        n3 = n2 - n1;
        break;
    }
    case '*':
    {
        n3 = n1 * n2;
        break;
    }
```
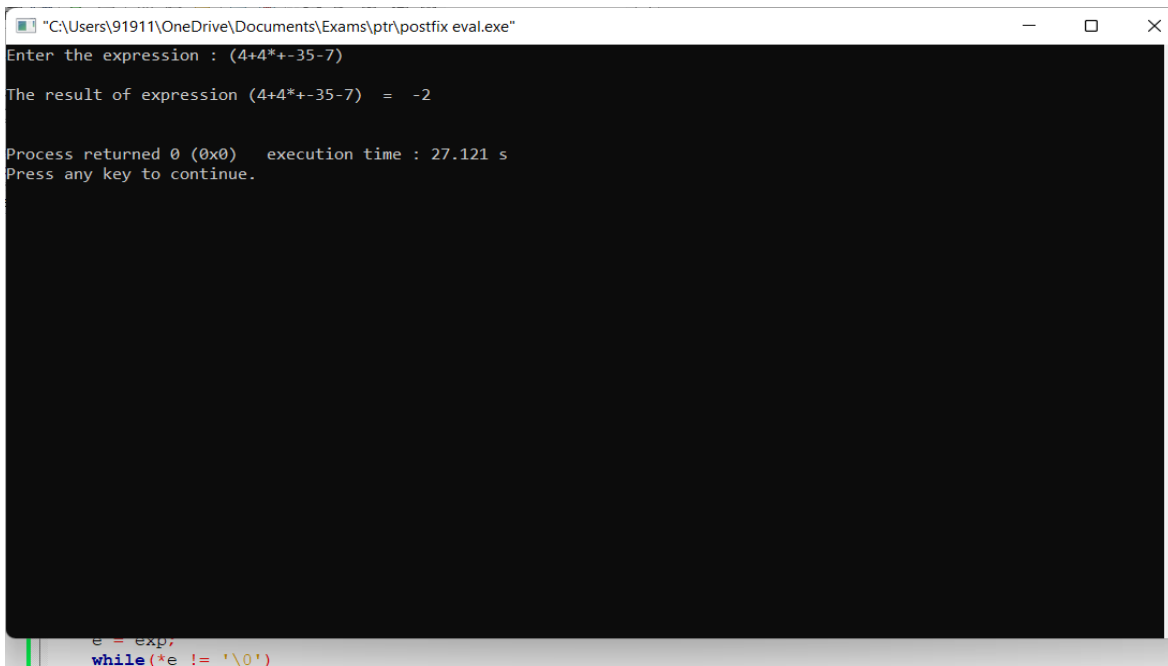
```
        case '/':

        {

            n3 = n2 / n1;

            break;

        }

        }

        push(n3);

    }

    e++;

}

printf("\nThe result of expression %s  =  %d\n\n",exp,pop());

return 0;

}
```

Output:


```
"C:\Users\91911\OneDrive\Documents\Exams\ptr\postfix eval.exe"                          —    □    ×
Enter the expression : (4+4*+-35-7)

The result of expression (4+4*+-35-7)   =   -2


Process returned 0 (0x0)    execution time : 27.121 s
Press any key to continue.
```