

LAB-3

```
#include <stdio.h>
#include <ctype.h>
```

POSTFIX (X, Y, Stack).

1) PUSH "(" onto Stack, add ")" to end of X.

2) SCAN X from left to right. Repeat steps 3 to 6 for each element of X until stack is empty.

3) IF operand, add to Y.

4) IF ~~left parenthesis~~ "(" PUSH into Stack.

END IF.

5) IF operator.

Repeatedly pop from Stack, add to Y each operator which has same precedence as or higher than operator.

Add operator to Stack.

END IF.

6) IF ")"

Repeatedly pop from Stack, add to Y each operator until "(" is found.

Remove "("

END IF.

END IF.

7) END.