

```
#include <stdio.h>
#include <string.h>
#include <process.h>
int F(char symbol)
{
    switch(symbol) {
        case '+':
        case '-': return 2;
        case '*':
        case '/': return 4;
        case return '^':
        case '$': return 5;
        case 'C': return 0;
        case '#': return -1;
        default: return 8;
    }
}
```

```
int G(char symbol)
{
    switch(symbol)
    {
```


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case '+':
case '-': return 1;
case '*': return 2;
case '/': return 3;
case '^':
case '%': return 6;
case '(': return 9;
case ')': return 0;
default: return 7;
}

```

```

}

void infixPostfix (char infix[], char postfix[])
{
    int top, i, j;
    char s[30], symbol;
    top = -1;
    s[++top] = '#';
    j = 0;
    for (i = 0; i < strlen(infix); i++)
    {
        symbol = infix[i];
        while (F(s[top]) > G(symbol)) {
            postfix[j] = s[top--];
            j++;
        }
        if (F(s[top]) != G(symbol))
            s[++top] = symbol;
        else
            top--;
    }
    while (s[top] != '#')
    {
        postfix[j++] = s[top--];
    }
    postfix[j] = '\0';
}

```

```
void main()
```

```
{
```

```
    char infix[20], postfix[20];
```

```
    printf("Enter the valid infix expression");
```

```
    scanf("%s", infix);
```

```
    infix-postfix(infix, postfix);
```

```
    printf("The postfix exp is \n");
```

```
    printf("%s\n", postfix);
```

```
}
```