

# Infix to Postfix

**Infix: 2+(3\*3)/(7-4)**

**Postfix: 233\*74-/+**

**Step 1:** Using ‘for’ loop, iterate the string

**Step 2a:** If string[i] is a number, then append it to a stack

**Step 2b:** If string[i] is a operator, we need to perform the following:

res = stack[top-1] (operator) stack[top]

**Step 3:** When the loop ends, print stack[top] which is the answer

char = 2stack.push(char)

2

char = 3stack.push(char)

23

char = 3stack.push(char)

233

char = \*

233

```
n2 = stack.top()
stack.pop()
n1 = stack.top()
stack.pop()
write a function "arith" to check if operator it is
res = arith(n1,n2,char)
res = 3 * 3 = 9
stack.push(res)
```

29

char = 7stack.push(char)

297

char = 4stack.push(char)

2974

char = -

2974

```
n2 = stack.top()
stack.pop()
n1 = stack.top()
stack.pop()
write a function "arith" to check if operator it is
res = arith(n1,n2,char)
res = 7 - 4 = 3
stack.push(res)
```

2 9 3

char = /

2 9 3

```
n2 = stack.top()
stack.pop()
n1 = stack.top()
stack.pop()
write a function "arith" to check if operator it is
res = arith(n1,n2,char)
res = 9 / 3 = 3
stack.push(res)
```

2 3

char = +

2 3

```
n2 = stack.top()
stack.pop()
n1 = stack.top()
stack.pop()
write a function "arith" to check if operator it is
res = arith(n1,n2,char)
res = 2 + 3 = 5
stack.push(res)
```

5

```
res = stack[top]
```

Hence, the result is 5