

5/10/20

SUDESHNA BHUSHAN, 18MI9CS189

Infix to Postfix

InfixtoPostfix (exp)

{

create a Stack S

for i ← 0 to length (exp) - 1

{

if exp[i] is operand

res ← res + exp[i]

elseif exp[i] is operator

while (!S.empty && HasHigherPre(S.top(), exp[i]))

{

res ← res + S.top()

S.pop()

}

S.push (exp[i])

elseif IsOpeningParentheses (exp[i])

S.push (exp[i])

elseif IsClosingParentheses (exp[i])

{

while (!S.empty() && !IsOpeningParentheses (S.top()))

{

res ← res + S.top()

S.pop

}

} } S.pop

```
while (!S.empty())
```

```
{ res ← res + S.top()
```

```
  S.pop()
```

```
}
```

```
return res
```

```
}
```