Topics to discuss

- · Factorial ob a number
- · Its time & space complexity.
- · Add to Github

factorial of a Number

```
res = 1; n=4
Test case I
   I/p = 4
               1=1
    0/p = 24
                 res = |x1=1
Test
    case I
                 res = 1×2
    I/p = 0
     0/p=1
               11:3
                 ves = 1×2×3
Assume n >0
               1= 4
                  res = [x2x3x7
               (=5 X
```

```
Static long iterative Solution (int n) {

long res = 1;

for (int i=1; i <= n; i++) {

res = res x i;

return res;
}
```

$$\frac{75(3)}{3 \times 75(2)} = \frac{3 \times 2 \times 1}{3 \times 75($$

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Start Practicing



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