

Evaluation of factorial(4) : return $n * \text{factorial}(n-1)$

$$\text{factorial}(4) = 4 * \underbrace{\text{factorial}(3)}$$

$$3 * \text{factorial}(2)$$

2 * factorial(1)

$$1 \times \underbrace{\text{factorial}(0)}_1$$

$$2 * 1$$

$3 * 2$

4 * 6

24

Evaluation of isPalindrome.

isPalindrome("civic") # 'c' == 'c', continue

is Palindrome ("ivi") \neq 'i' == 'i', continue

is Palindrome("v") \neq len('v') == 1, return True

True

True

==

Evaluation of removeEvenNumbers

removeEvenNumbers([1,2,3])

[1] + removeEvenNumbers([2,3])

removeEvenNumbers([3])

[3] + removeEvenNumbers([])

[]

[3]

[1,3]

Evaluation of fibonacci(4)

fib(3)

+ fib(2)

fib(2) + fib(1)

fib(1) + fib(0)

fib(1) + fib(0) = 1 + 0 = 1

1 + 0 = 1

2

+

1

3

Evaluation of reverseString('cs8'):

reverseString('cs8')

reverseString('s8') + 'c' →

'8s' + 'c' → '8sc'

's' + '8' → 's8'

reverseString('s8') + 'c' → ''

reverseString('8') + 's' → '8' + 's' → '8s'

reverseString('') + '8'

'' + '8' → '8'