

7. Recursion

Recursion is a programming technique where a function calls itself to solve a problem. It is often used for tasks that can be broken down into smaller, similar sub-problems.

For example, calculating the factorial of a number:

```
def factorial(n):  
    if n == 1:  
        return 1  
    else:  
        return n * factorial(n-1)
```

Base case:

When the function reaches a base case, it stops calling itself and returns a value.

Recursion is useful for solving problems that have a recursive structure, such as tree traversals, sorting algorithms, and mathematical calculations.

However, recursion can be inefficient and may lead to stack overflow errors if not used carefully.

It is important to understand the base case and the recursive step when using recursion.

Example:

Calculating the sum of numbers from 1 to n using recursion.

Base case:

When n is 1, the sum is 1.

Recursive step:

Sum(n) = n + Sum(n-1)

Sum(1) = 1

Sum(2) = 2 + Sum(1) = 2 + 1 = 3

Sum(3) = 3 + Sum(2) = 3 + 3 = 6

Sum(4) = 4 + Sum(3) = 4 + 6 = 10

Sum(5) = 5 + Sum(4) = 5 + 10 = 15

Sum(6) = 6 + Sum(5) = 6 + 15 = 21

Sum(7) = 7 + Sum(6) = 7 + 21 = 28

Sum(8) = 8 + Sum(7) = 8 + 28 = 36

Sum(9) = 9 + Sum(8) = 9 + 36 = 45

Sum(10) = 10 + Sum(9) = 10 + 45 = 55

Sum(11) = 11 + Sum(10) = 11 + 55 = 66

Sum(12) = 12 + Sum(11) = 12 + 66 = 78

Sum(13) = 13 + Sum(12) = 13 + 78 = 91

Sum(14) = 14 + Sum(13) = 14 + 91 = 105

Sum(15) = 15 + Sum(14) = 15 + 105 = 120

Sum(16) = 16 + Sum(15) = 16 + 120 = 136

Sum(17) = 17 + Sum(16) = 17 + 136 = 153

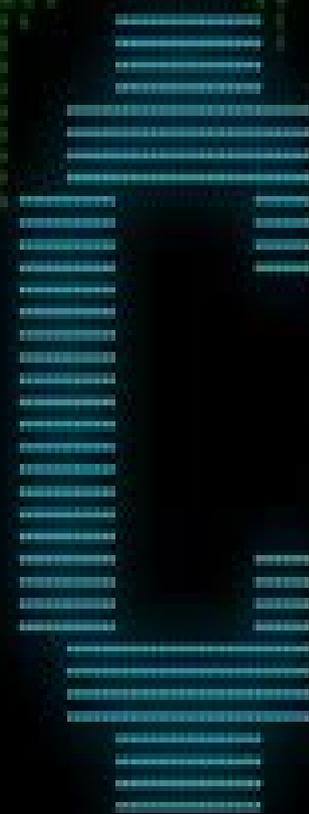
Sum(18) = 18 + Sum(17) = 18 + 153 = 171

Sum(19) = 19 + Sum(18) = 19 + 171 = 190

Sum(20) = 20 + Sum(19) = 20 + 190 = 210

Sum

Sum(21) = 21 + Sum(20) = 21 + 210 = 231



Sum(1) = 1
Sum(2) = 2 + Sum(1) = 2 + 1 = 3
Sum(3) = 3 + Sum(2) = 3 + 3 = 6
Sum(4) = 4 + Sum(3) = 4 + 6 = 10
Sum(5) = 5 + Sum(4) = 5 + 10 = 15
Sum(6) = 6 + Sum(5) = 6 + 15 = 21
Sum(7) = 7 + Sum(6) = 7 + 21 = 28
Sum(8) = 8 + Sum(7) = 8 + 28 = 36
Sum(9) = 9 + Sum(8) = 9 + 36 = 45
Sum(10) = 10 + Sum(9) = 10 + 45 = 55
Sum(11) = 11 + Sum(10) = 11 + 55 = 66
Sum(12) = 12 + Sum(11) = 12 + 66 = 78
Sum(13) = 13 + Sum(12) = 13 + 78 = 91
Sum(14) = 14 + Sum(13) = 14 + 91 = 105
Sum(15) = 15 + Sum(14) = 15 + 105 = 120

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