

# 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 limitations of recursion and to use it judiciously.

Example:

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

Base case:

When n is 1, the sum is 1.

Recursive case:

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

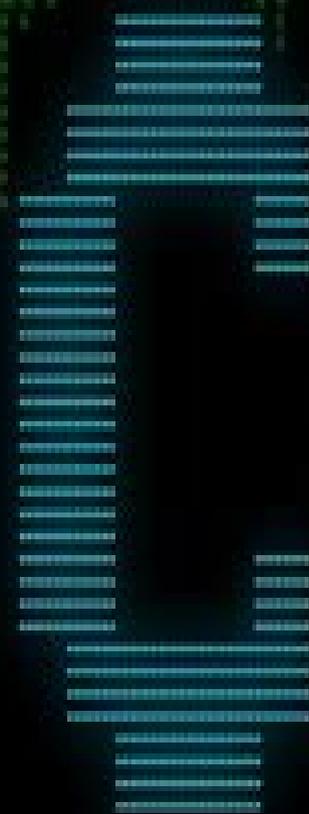
Sum(19) = 19 + Sum(18) = 19 + 171 = 190

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

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

Sum(22) = 22 + Sum(21) = 22 + 231 = 253

Sum(23) = 23 + Sum(22) = 23 + 253 = 276



Recursion is a powerful tool for solving complex problems, but it must be used carefully to avoid stack overflow errors. Understanding the base case and the recursive case is crucial for writing recursive functions.

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**SA Adler**



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