

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 and sorting algorithms.

It is important to ensure that the recursive function has a base case to avoid infinite recursion.

Recursion is a powerful tool for solving complex problems, but it can be tricky to understand at first.

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

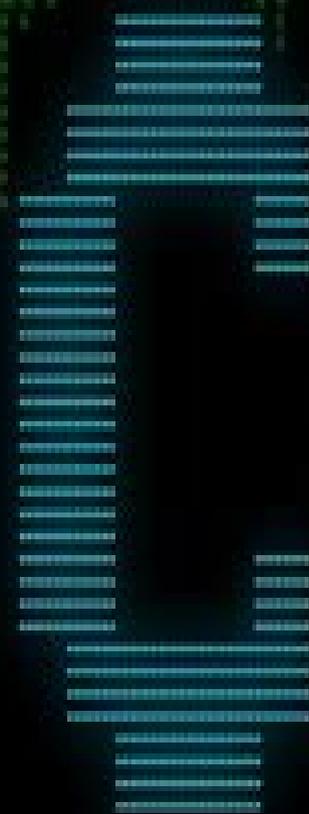
Sum(19) = 19 + Sum(18) = 19 + 171 = 190

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 can be tricky to understand at first. It is important to ensure that the recursive function has a base case to avoid infinite recursion.

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