**Nested Recursion**

**Definition**

Nested recursion occurs when the recursive parameter itself is a recursive call. The recursive call is nested inside another recursive call.

**Example Implementation: Ackermann Function**

def ackermann(m, n):

if m == 0:

return n + 1

elif n == 0:

return ackermann(m - 1, 1)

else:

return ackermann(m - 1, ackermann(m, n - 1))

**Growth Visualization**

A(2,1)

└── A(1, A(2,0))

└── A(1, A(1,1))

└── A(1, A(1,0))

└── A(1, A(0,1))

└── A(1, 2)