

A loop within a loop in programming is called a nested loop. Nested loops are frequently applied when conducting repetitive actions with a hierarchical layout or when iterating through various data dimensions like rows and columns in a matrix. The inner loop will iterate several times during each iteration of the outer loop. In this case, the outer loop repeats 3 times, and during each cycle of the outer loop, the inner loop also repeats 2 times. This indicates that there is a nested loop structure (like a for loop or a while loop) within another loop.