```
Input: function f(x), function g(x), float initial_x, float tolerance,
int iterations
Output: result table results

begin FixedPoint
    if(f(x) and g(x) are not valid functions)
        break;
    if(initial_x or tolerance or iterations are not valid numbers)
        break;
    if(tolerance is lees than 0)
        break;
    if(iterations is less than 1)
        break;

    array results

    float current_x
    int iter_count <- 0
    float g_x <- g(initial_x)
    float f_x <- f(initial_x)
    float previous_x <- initial_x
    float error <- MAXIMUM FLOAT VALUE
    results[iter_count] <- [iter_count, initial_x, g_x, f_x, "N/A"]

        while iter_count < iterations and error > tolerance do:
            iter_count <- iter_count + 1
            current_x <- g_x
            g_x <- g(current_x)
            f_x <- f(current_x)
            error <- |previous_x - current_x|
            previous_x <- current_x
            results[iter_count] <- [iter_count, current_x, g_x, f_x, error]
        end while

    return results
end FixedPoint
```