```
Input: function f(x), float a, float b, float tolerance, int max_n_iterations
Output: result table results

begin FalsePosition
    if(f(x) is not valid function)
        break;
    if(a or b or tolerance or max_n_iterations are not valid numbers)
        break;
    if(tolerance < 0)
        break;
    if(iterations < 1)
        break;

    array results

    float f_a <- f(a)
    float f_b <- f(b)
    float middle_point <- (a + b)/2
    float f_middle_point <- f(middle_point)
    float error <- MAXIMUM FLOAT VALUE
    int iterations_counter <- 1

    results[iterations_counter] <- [iterations_counter, a, middle_point,
    b, f_middle_point, "N/A"]

    float p_0

    while ((error > tolerance) and (iterations_counter < max_n_iterations))
        iterations_counter <- iterations_counter + 1
        if(f_a * f_b < 0):
                b <- middle_point
        else
                a <- middle_point

        p_0 <- middle_point
        middle_point <- (f(b)*a - f(a)*b)/(f(b) - f(a))
        f_middle_point <- f(middle_point)
        error <- |middle_point - p_0|
        results[iterations_counter] <- [iterations_counter, a, middle_point,
        b, f_middle_point, error]
    end while

    return results
end FalsePosition
```