Exercise 94:

**Processing Logic and Result:**

* N = 8
* The loop runs with i from 1 to 9.
* For i = 1 to i = 8: Since i <= N (8), the calculate(i) function is **not called**, and nothing is printed.
* For i = 9: The condition i > N is true, so calculate(9) is called.

**Execution of calculate(9):**

* S = 1 (initial value)
* i = 1: Not divisible by 3.
* i = 2: Not divisible by 3.
* i = 3: Divisible by 3, so S = S \* 3 = 1 \* 3 = 3.
* i = 4: Not divisible by 3.
* i = 5: Not divisible by 3.
* i = 6: Divisible by 3, so S = S \* 6 = 3 \* 6 = 18.
* i = 7: Not divisible by 3.
* i = 8: Not divisible by 3.
* i = 9: Divisible by 3, so S = S \* 9 = 18 \* 9 = 162.

**Final result of calculate(9) = 162.**

**Output:**

When i = 9, the program will print: ====+162