

Use Case Number: 7

Use case name: Compute Function Value

Actors: System responsible to compute the function value.

Initial State (Preconditions):

- Step 5 of the Evaluate Postfix Expression use case is completed, initiating the Compute Function Value use case.

Final State (Postconditions):

- System returns the computed function value.

Main Scenario (Basic Flow):

1. System verifies the cell range format.
2. Cell range has a correct format.
3. System gets the value of each cell in the cell range and put it in a list.
4. System computes the value of the AVERAGE function by summing all the values and dividing by the length of the list.
5. System returns the computed value.

Extensions (Alternative Flows):

- 1a. Invalid cell range format.
 1. System ends use case with an evaluation error.
 2. System reports the error through console.