

How can I use the REDUCE function in Excel to simplify a list of numbers or mathematical expressions?

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The REDUCE function in Excel is a powerful tool that allows users to simplify a list of numbers or mathematical expressions in a quick and efficient manner. By applying this function, users can reduce large and complex sets of data into a single, simplified value. This feature is particularly useful in situations where there is a need to condense and streamline data for better analysis and decision-making. The REDUCE function can be easily accessed through the Excel formula bar, and its user-friendly interface makes it accessible for users of all levels of proficiency. With the REDUCE function, users can save time and effort in managing and manipulating data, making it an essential tool for data analysis and organization in Excel.

Reduces an array to an accumulated value by applying a LAMBDA to each value and returning the total value in the accumulator.

Syntax

=REDUCE(, array, lambda(accumulator, value, body))

The REDUCE function syntax has the following arguments and parameters:

Sets the starting value for the accumulator.

array An array to be reduced.

lambda A LAMBDA that is called to reduce the array. The LAMBDA takes three parameters:

accumulator The value totaled up and returned as the final result.

value The current value from the array.

body The calculation applied to each element in the array.

Remarks

Use the initial_value argument to set the starting value for the accumulator parameter. In Example 2, where you multiply the accumulator, set the value to 1 to avoid multiplying by 0.

Errors

Providing an invalid LAMBDA function or an incorrect number of parameters returns a #VALUE! error called "Incorrect Parameters".

See Also

[LAMBDA function](#)

[MAP function](#)

[SCAN function](#)

[MAKEARRAY function](#)

[BYCOL function](#)

[BYROW function](#)

[ISOMITTED function](#)

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