Variables Commands

Instructions and functions to manage variables and arrays in AOZ

Mod
Operator. Calculates the modulo of two numbers

Not
Operator. Logical NOT, equivalent to ! in other languages

Swap VARIABLE1, VARIABLE2
Swap the content of two variables
Parameters:
VARIABLE1: First variable
VARIABLE2: Second variable

Shared VARIABLE
Used in a procedure, make the variable visible by the procedure above
Parameters:
VARIABLE: Variable to share

Global VARIABLE
Make a variable visible in the entire application
Parameters:
VARIABLE: Variable to share

Varptr VARIABLE
Return the memory address of a variable so that you can poke in it. May be implemented in AOZ with specific memory emulation and for education purpose
Parameters:
VARIABLE: Variable to get the address from

Dim DIMENSION1, DIMENSION2, DIMENSION...
Define a new array, or a list of arrays. The number of dimension is not limited, yet only by the memory imprint and the machine the application is running on, be careful with large arrays!
Parameters:
DIMENSION1: First dimension
DIMENSION2: Second dimension
DIMENSION...: Dimensions

Sort ARRAY
Sort all elements in an array
Parameters:
ARRAY: The array to sort

Match ARRAY, ARRAY
Search an array for a value
Parameters:
ARRAY: The array to search

ARRAY: The value to find. Must be of the same type (number or string) than the array
Value returned:
integer: The index of the item if found, -1 if not found

True
Constant: boolean value TRUE
Value returned:
boolean: TRUE

False
Constant: boolean value FALSE
Value returned:
boolean: FALSE

Is Defined
Test if a variable has been defined. Only valid if automatic definition of variable is switched off when transpiling (TODO! link to tag)
Value returned:
boolean: TRUE if the variable is defined, FALSE if not

Inc
Add one to the content of a variable

Dec
Subtract one to the content of a variable

Add VARIABLE, EXPRESSION, BASE, TOP
Quickly add an expression to a numeric variable
Parameters:
VARIABLE: The variable to add to
EXPRESSION: The value to add
BASE: Optional.
TOP: Optional, if specified behavior will be identical to : VARIABLE = VARIABLE + EXPRESSION : If VARIABLE < BASE Then VARIABLE = TOP : If VARIABLE > TOP Then VARIABLE = BASE

Data
Define a list of values to be read at runtime, either string or numbers, separated by commas. Data can be spread on several lines

Read VARIABLE
Read the next valkue from the Data section of the code, and move the read-pointer to the next value. The type of the value must be identical to the typ eof the variable (number for numbers, strings for strings)
Parameters:
VARIABLE: The variable to read the data into.

Restore LABEL
Position the data pointer to the beginning of the data definition or the data immediately following a label inside of the code
Parameters:
LABEL: (Optional) Indicate the position int he source code to restore to

Array ARRAY

Return the memory address of the beginning of an array. May be imploemented in AOZ for education purpose

Parameters:

ARRAY: The array to get the address from

Value returned:

integer: 0 until imjplemented