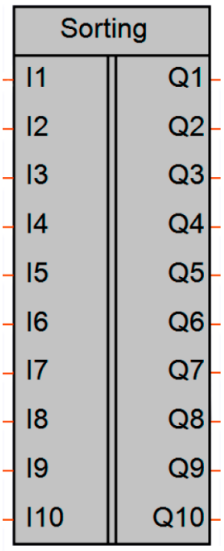
Sorting integers by size

SORTING



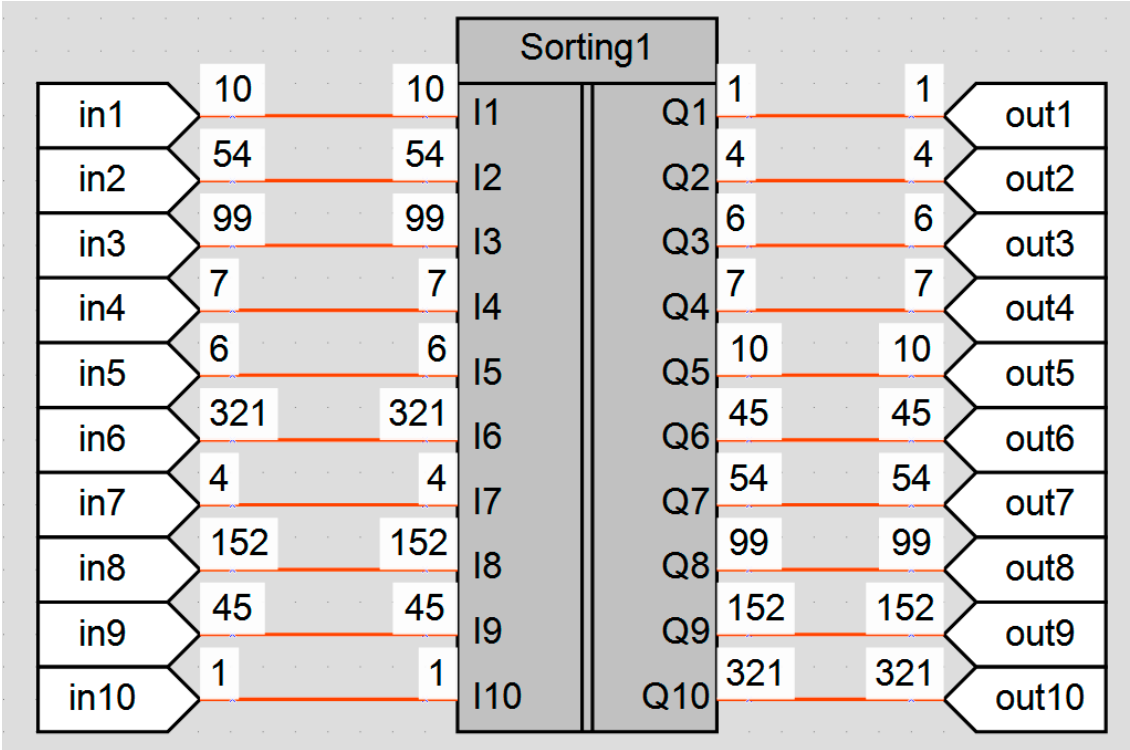
Input	Data type	Description	Area
I1…I10	INT	Variable input values	0…2^{32}
Output	**Data type**	**Description**	**Area**
Q1…Q10	INT	Sorted output variables	0…2^{32}

Function

The macro takes a maximum of 10 integer values at the input and ranks them in ascending order, the sorted values are transferred to the output Q1-Q10, the larger value corresponds to the larger output index.

It is not necessary to use all input variables for this macro, if the inputs are empty, their value is 0.

Sample project



The figure above shows an example of how the macro works. Variables with different setpoints are fed to the I1-I10 inputs and sent to the Q1-Q10 outputs sorted from lower to higher values.

Application area of the macro:

1) For mathematical algorithms, when messages are displayed on the screen.

Devices	PR200, SMI200
Version	1.0
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