**normi**

*Function of calculating infinite norm of real matrix.*

**Syntax:**

*x* = **normi**(*M*);

**Arguments:**

*M* – input matrix.

**Description:**

*normi(M)* – function returns the infinite norm of real matrix. All the strings of matrix *M* get summed up according to module, and the maximum of the obtained sums is announced to be the norm (infinite norm).

Input matrix *М* can be assigned:

* as variable of matrix type determined earlier:

*x* = **normi**(*M*);

* as matrix consisting of variables determined earlier:

*x* = **normi**([[*x1,x2*],[*x3,x4*],[*x5,x6*]]);

* as constant array:

*x* = **normi**([[1,2],[3,4],[5,6]]);

**Result:**

*х* – value of the infinite norm of matrix *M.*

**Example:**

|  |  |
| --- | --- |
|  | **const**M = [[1, -3, 2], [4, 5, -1], [3, 8, -6];  x = **normi**(M); //17 |

As a result variable *x* will be assigned the value of the infinite norm of matrix *М* equal 17.