swap() — Interchange contents of variables

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Conformability

Description

swap(A, B) interchanges the contents of A and B. A and B are not required to be of the same type or dimension.

Syntax

void swap(transmorphic matrix A, transmorphic matrix B)

Remarks and examples

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There is no faster way than swap(A, B) to assign A=B when you do not care about the contents of B after the assignment. For instance, you have the code

A = B $B = \dots (matrix expression) \dots$

Faster is

swap(A, B) $B = \dots$ (matrix expression)...

The execution time of swap() is independent of the size of A and B, and swap() conserves memory to boot. Pretend that B is a 900 \times 900 matrix. After A=B is executed, but before B is reassigned, two copies of the 900 \times 900 matrix exist. That does not happen with swap().

Conformability

```
swap(A, B):

input:

A: r_1 \times c_1

B: r_2 \times c_2

output:

A: r_2 \times c_2

B: r_1 \times c_1
```

Diagnostics

swap(A, B) works only with variables. Do not code, for instance, swap(A[i,j], A[j,i]). It is not an error, but it will have no effect.

Also see

[M-4] **Programming** — Programming functions

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