Title

> **invtokens( )** — Concatenate string rowvector into string scalar

Syntax

> *string scalar* invtokens(*string rowvector s*)

> *string scalar* invtokens(*string rowvector s*, *string scalar c*)

Description

invtokens(*s*) returns the elements of *s*, concatenated into a string scalar with the elements separated by spaces. invtokens(*s*) is equivalent to invtokens(*s*, " ").

invtokens(*s*, *c*) returns the elements of *s*, concatenated into a string scalar with the elements separated by *c*.

Remarks and examples

invtokens(*s*) is the inverse of tokens() (see [M-5] **tokens( )**); invtokens() returns the string obtained by concatenating the elements of *s* into a space-separated list.

invtokens(*s*, *c*) places *c* between the elements of *s* even when the elements of *s* are equal to "". For instance,

```
: s = ("alpha", "", "gamma", "")
: invtokens(s, ";")
  alpha;;gamma;
```

To remove separators between empty elements, use select() (see [M-5] **select( )**) to remove the empty elements from *s* beforehand:

```
: s2 = select(s, strlen(s):>0)
: s2
            1       2

  1 |  alpha    gamma |

: invtokens(s2, ";")
  alpha;gamma
```

Conformability

invtokens(*s*, *c*):

s:	$1 \times p$	
c:	1×1	(optional)
result:	1×1	

Diagnostics

If s is 1×0, invtokens(s,c) returns "".

Also see

[M-5] **tokens( )** — Obtain tokens from string

[M-4] **string** — String manipulation functions