invtokens() — Concatenate string rowvector into string scalar

## 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.

## Syntax

```
string scalar invtokens(string rowvector s)
```

```
string scalar invtokens(string rowvector s, string scalar 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):

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>s:</td>
<td>1 × p</td>
</tr>
<tr>
<td>c:</td>
<td>1 × 1  (optional)</td>
</tr>
<tr>
<td>result:</td>
<td>1 × 1</td>
</tr>
</tbody>
</table>
Diagnostics

If $s$ is $1 \times 0$, \texttt{invtokens}(s,c) \text{return}s "".

Also see

[M-5] \texttt{tokenget()} — Advanced parsing

[M-5] \texttt{tokens()} — Obtain tokens from string

[M-5] \texttt{ustrword()} — Obtain Unicode word from Unicode string

[M-4] \texttt{String} — String manipulation functions

[P] \texttt{gettoken} — Low-level parsing

[P] \texttt{tokenize} — Divide strings into tokens