Ceci est le fichier de test de xstring.

Toutes les situations ne sont pas envisagées, mais au moins un grand nombre ! Les macros sont examinées dans l'ordre logique du code.

Lorsque le résultat contient des espaces ou peut conduire à des doutes, il sera entouré de "|", étant entendu que "||" est une chaîne vide.

Le mode `\fullexpandarg`

Le test `\IfSubStr`

`\IfSubStr{abcdef}{cd}{vrai}{faux}`	vrai
`\IfSubStr{a b c d }{b c}{vrai}{faux}`	vrai
`\IfSubStr{a b c d }{bc}{vrai}{faux}`	faux
`\IfSubStr{abcdef}{}{vrai}{faux}`	faux
`\IfSubStr{a}{a}{vrai}{faux}`	vrai
`\IfSubStr{aaaa}{aa}{vrai}{faux}`	vrai
`\IfSubStr{a}{aa}{vrai}{faux}`	faux
`\IfSubStr{éàèï}{à}{vrai}{faux}`	vrai
`\IfSubStr{éàèï}{ù}{vrai}{faux}`	faux
`\IfSubStr{ÉÀÇ}{Ç}{vrai}{faux}`	vrai
`\IfSubStr{a}{}{vrai}{faux}`	faux
`\IfSubStr{}{a}{vrai}{faux}`	faux
`\IfSubStr{}{}{vrai}{faux}`	faux
`\IfSubStr[2]{abaca}{a}{vrai}{faux}`	vrai
`\IfSubStr[3]{abaca}{a}{vrai}{faux}`	vrai
`\IfSubStr[4]{abaca}{a}{vrai}{faux}`	faux
`\IfSubStr[-2]{abaca}{a}{vrai}{faux}`	faux

Le test `\IfBeginWith`

`\IfBeginWith{abcdef}{adc}{vrai}{faux}`	faux
`\IfBeginWith{abcdef}{abcd}{vrai}{faux}`	vrai
`\IfBeginWith{ a b c }{ a}{vrai}{faux}`	vrai
`\IfBeginWith{a b c d}{ab}{vrai}{faux}`	faux
`\IfBeginWith{a}{a}{vrai}{faux}`	vrai
`\IfBeginWith{a}{aa}{vrai}{faux}`	faux
`\IfBeginWith{éàèï}{è}{vrai}{faux}`	faux
`\IfBeginWith{éàèï}{éà}{vrai}{faux}`	vrai
`\IfBeginWith{ÉÀÇ}{É}{vrai}{faux}`	vrai
`\IfBeginWith{a}{}{vrai}{faux}`	faux
`\IfBeginWith{}{a}{vrai}{faux}`	faux
`\IfBeginWith{}{}{vrai}{faux}`	faux

Le test `\IfEndWith`

`\IfEndWith{abcdef}{ab}{vrai}{faux}`	faux
`\IfEndWith{abcdef}{f}{vrai}{faux}`	vrai
`\IfEndWith{ a b c }{c}{vrai}{faux}`	faux
`\IfEndWith{ a b c }{ }{vrai}{faux}`	vrai
`\IfEndWith{a}{a}{vrai}{faux}`	vrai
`\IfEndWith{a}{aa}{vrai}{faux}`	faux
`\IfEndWith{éàèï}{è}{vrai}{faux}`	faux
`\IfEndWith{éàèï}{ï}{vrai}{faux}`	vrai
`\IfEndWith{ÉÀÇ}{Ç}{vrai}{faux}`	vrai
`\IfEndWith{a}{}{vrai}{faux}`	faux
`\IfEndWith{}{a}{vrai}{faux}`	faux
`\IfEndWith{}{}{vrai}{faux}`	faux

Le test `\IfSubStrBefore`

`\IfSubStrBefore{abcdef}{b}{e}{vrai}{faux}`	vrai
`\IfSubStrBefore{abcdef}{e}{c}{vrai}{faux}`	faux
`\IfSubStrBefore{ a b c }{ }{b}{vrai}{faux}`	faux
`\IfSubStrBefore{ a b c }{ b}{c }{vrai}{faux}`	vrai
`\IfSubStrBefore{abcdef}{z}{a}{vrai}{faux}`	faux
`\IfSubStrBefore{abcdef}{y}{z}{vrai}{faux}`	faux

```
                     \IfSubStrBefore{abcdef}{a}{z}{vrai}{faux}   faux
                       \IfSubStrBefore{aaa}{a}{aa}{vrai}{faux}   faux
                     \IfSubStrBefore{abcdef}{a}{a}{vrai}{faux}   faux
                         \IfSubStrBefore{éàèï}{à}{ï}{vrai}{faux}   vrai
                         \IfSubStrBefore{éàèï}{é}{à}{vrai}{faux}   faux
                         \IfSubStrBefore{ÉÀÇ}{Ç}{É}{vrai}{faux}   faux
                          \IfSubStrBefore{a}{a}{a}{vrai}{faux}   faux
                          \IfSubStrBefore{}{a}{b}{vrai}{faux}   faux
                          \IfSubStrBefore{a}{}{a}{vrai}{faux}   faux
                          \IfSubStrBefore{}{a}{a}{vrai}{faux}   faux
                            \IfSubStrBefore{}{}{}{vrai}{faux}   faux
               \IfSubStrBefore[1,1]{abacada}{d}{a}{vrai}{faux}   faux
               \IfSubStrBefore[1,2]{abacada}{d}{a}{vrai}{faux}   faux
               \IfSubStrBefore[1,3]{abacada}{d}{a}{vrai}{faux}   faux
               \IfSubStrBefore[1,4]{abacada}{d}{a}{vrai}{faux}   vrai
            \IfSubStrBefore[2,1]{maman papa}{a}{p}{vrai}{faux}   vrai
            \IfSubStrBefore[2,2]{maman papa}{a}{p}{vrai}{faux}   vrai
            \IfSubStrBefore[4,2]{maman papa}{a}{p}{vrai}{faux}   faux
```

Le test \IfStrBehind

```
                     \IfSubStrBehind{abcdef}{b}{e}{vrai}{faux}   faux
                     \IfSubStrBehind{abcdef}{e}{c}{vrai}{faux}   vrai
                    \IfSubStrBehind{ a b c }{ }{b}{vrai}{faux}   faux
                   \IfSubStrBehind{ a b c }{ c}{ a}{vrai}{faux}   faux
                     \IfSubStrBehind{abcdef}{z}{a}{vrai}{faux}   faux
                     \IfSubStrBehind{abcdef}{y}{z}{vrai}{faux}   faux
                     \IfSubStrBehind{abcdef}{a}{z}{vrai}{faux}   faux
                       \IfSubStrBehind{aaa}{a}{aa}{vrai}{faux}   faux
                     \IfSubStrBehind{abcdef}{a}{a}{vrai}{faux}   faux
                         \IfSubStrBehind{éàèï}{ï}{à}{vrai}{faux}   vrai
                         \IfSubStrBehind{éàèï}{à}{é}{vrai}{faux}   faux
                         \IfSubStrBehind{ÉÀÇ}{À}{Ç}{vrai}{faux}   faux
                          \IfSubStrBehind{a}{a}{a}{vrai}{faux}   faux
                          \IfSubStrBehind{}{a}{b}{vrai}{faux}   faux
                          \IfSubStrBehind{a}{}{a}{vrai}{faux}   faux
                          \IfSubStrBehind{}{a}{a}{vrai}{faux}   faux
                            \IfSubStrBehind{}{}{}{vrai}{faux}   faux
               \IfSubStrBehind[1,1]{abacada}{c}{a}{vrai}{faux}   faux
               \IfSubStrBehind[1,2]{abacada}{c}{a}{vrai}{faux}   vrai
               \IfSubStrBehind[1,3]{abacada}{c}{a}{vrai}{faux}   faux
            \IfSubStrBehind[2,1]{maman papa}{a}{p}{vrai}{faux}   faux
            \IfSubStrBehind[3,1]{maman papa}{a}{p}{vrai}{faux}   vrai
            \IfSubStrBehind[3,2]{maman papa}{a}{p}{vrai}{faux}   faux
            \IfSubStrBehind[4,2]{maman papa}{a}{p}{vrai}{faux}   vrai
```

Le test \IfInteger

```
                                \IfInteger{156}{vrai}{faux}   vrai
                                \IfInteger{1.6}{vrai}{faux}   faux
                                \IfInteger{7a5}{vrai}{faux}   faux
                                 \IfInteger{+9}{vrai}{faux}   vrai
                                \IfInteger{-15}{vrai}{faux}   vrai
                                  \IfInteger{0}{vrai}{faux}   vrai
                               \IfInteger{-1,2}{vrai}{faux}   faux
                                 \IfInteger{1.}{vrai}{faux}   faux
                                \IfInteger{-00}{vrai}{faux}   vrai
                                  \IfInteger{+}{vrai}{faux}   faux
                                  \IfInteger{-}{vrai}{faux}   faux
                                  \IfInteger{.}{vrai}{faux}   faux
                                   \IfInteger{}{vrai}{faux}   faux
```

Le test \IfDecimal

```
                                  \IfDecimal{6}{vrai}{faux}   vrai
                                \IfDecimal{-78}{vrai}{faux}   vrai
                               \IfDecimal{3.14}{vrai}{faux}   vrai
                               \IfDecimal{3,14}{vrai}{faux}   vrai
```

\IfDecimal{1..5}{vrai}{faux}	faux
\IfDecimal{-9.8}{vrai}{faux}	vrai
\IfDecimal{+9.8}{vrai}{faux}	vrai
\IfDecimal{-9,8}{vrai}{faux}	vrai
\IfDecimal{+9,8}{vrai}{faux}	vrai
\IfDecimal{+6.7.}{vrai}{faux}	faux
\IfDecimal{.5}{vrai}{faux}	vrai
\IfDecimal{1.}{vrai}{faux}	faux
\IfDecimal{-.99}{vrai}{faux}	vrai
\IfDecimal{-5.}{vrai}{faux}	faux
\IfDecimal{5a9.}{vrai}{faux}	faux
\IfDecimal{+}{vrai}{faux}	faux
\IfDecimal{-}{vrai}{faux}	faux
\IfDecimal{.}{vrai}{faux}	faux
\IfDecimal{}{vrai}{faux}	faux

Le test \IfStrEq

\IfStrEq{abcdef}{abcdef}{vrai}{faux}	vrai
\IfStrEq{a b c}{a b c}{vrai}{faux}	vrai
\IfStrEq{abcd}{abc}{vrai}{faux}	faux
\IfStrEq{aab}{ab}{vrai}{faux}	faux
\IfStrEq{aab}{aa}{vrai}{faux}	faux
\IfStrEq{1.2}{1.20}{vrai}{faux}	faux
\IfStrEq{3,4}{3.4}{vrai}{faux}	faux
\IfStrEq{ }{ }{vrai}{faux}	vrai
\IfStrEq{}{a}{vrai}{faux}	faux
\IfStrEq{a}{}{vrai}{faux}	faux
\IfStrEq{}{}{vrai}{faux}	vrai

Le test \IfEq

\IfEq{abcdef}{abcdef}{vrai}{faux}	vrai
\IfEq{a b c}{a b c}{vrai}{faux}	vrai
\IfEq{abcd}{abc}{vrai}{faux}	faux
\IfEq{aab}{ab}{vrai}{faux}	faux
\IfEq{aab}{aa}{vrai}{faux}	faux
\IfEq{1.2}{1.20}{vrai}{faux}	vrai
\IfEq{+1.0000}{1}{vrai}{faux}	vrai
\IfEq{-10}{10}{vrai}{faux}	faux
\IfEq{1,2}{1.2}{vrai}{faux}	vrai
\IfEq{.5}{0.5}{vrai}{faux}	vrai
\IfEq{,5}{0,5}{vrai}{faux}	vrai
\IfEq{10}{dix}{vrai}{faux}	faux
\IfEq{123}{1a3}{vrai}{faux}	faux
\IfEq{0}{}{vrai}{faux}	faux
\IfEq{++10}{+10}{vrai}{faux}	faux
\IfEq{-10}{+10}{vrai}{faux}	faux
\IfEq{a}{}{vrai}{faux}	faux
\IfEq{}{a}{vrai}{faux}	faux
\IfEq{}{}{vrai}{faux}	vrai

La macro \StrBefore

\StrBefore{abcedef}{e}	abc
\StrBefore{abcdef}{a}	||
\StrBefore{abcdef}{z}	||
\StrBefore{a b c d}{c}	|a b |
\StrBefore{a b c d}{ }	|a|
\StrBefore[2]{a b c d}{ }	|a b|
\StrBefore[3]{a b c d}{ }	|a b c|
\StrBefore[9]{a b c d}{ }	||
\StrBefore[-7]{a b c d}{ }	||
\StrBefore{abcdef}{Z}	||
\StrBefore{éàèï}{è}	éà
\StrBefore[2]{étété}{é}	ét
\StrBefore{ÉÀÇ}{À}	É
\StrBefore[1]{aaaaaa}{aa}	||

$$\begin{array}{ll}
\text{\StrBefore[2]\{aaaaaa\}\{aa\}} & \text{aa} \\
\text{\StrBefore[3]\{aaaaaa\}\{aa\}} & \text{aaaa} \\
\text{\StrBefore[4]\{aaaaaa\}\{aa\}} & || \\
\text{\StrBefore\{a\}\{\}} & || \\
\text{\StrBefore\{\}\{a\}} & || \\
\text{\StrBefore\{\}\{\}} & || \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\text{\StrBefore\{abcedef\}\{e\}[\aa]\aa} & \text{abc} \\
\text{\StrBefore\{abcdef\}\{a\}[\aa]\aa} & || \\
\text{\StrBefore\{abcdef\}\{z\}[\aa]\aa} & || \\
\text{\StrBefore\{a b c d\}\{c\}[\aa]\aa} & |a\ b\ | \\
\text{\StrBefore\{a b c d\}\{ \}[\aa]\aa} & |a| \\
\text{\StrBefore[2]\{a b c d\}\{ \}[\aa]\aa} & |a\ b| \\
\text{\StrBefore[3]\{a b c d\}\{ \}[\aa]\aa} & |a\ b\ c| \\
\text{\StrBefore[9]\{a b c d\}\{ \}[\aa]\aa} & || \\
\text{\StrBefore[-7]\{a b c d\}\{ \}[\aa]\aa} & || \\
\text{\StrBefore\{abcdef\}\{Z\}[\aa]\aa} & || \\
\text{\StrBefore\{éàèï\}\{è\}[\aa]\aa} & \text{éà} \\
\text{\StrBefore[2]\{étété\}\{é\}[\aa]\aa} & \text{ét} \\
\text{\StrBefore\{ÉÀÇ\}\{À\}[\aa]\aa} & \text{É} \\
\text{\StrBefore[1]\{aaaaaa\}\{aa\}[\aa]\aa} & || \\
\text{\StrBefore[2]\{aaaaaa\}\{aa\}[\aa]\aa} & \text{aa} \\
\text{\StrBefore[3]\{aaaaaa\}\{aa\}[\aa]\aa} & \text{aaaa} \\
\text{\StrBefore[4]\{aaaaaa\}\{aa\}[\aa]\aa} & || \\
\text{\StrBefore\{a\}\{\}[\aa]\aa} & || \\
\text{\StrBefore\{\}\{a\}[\aa]\aa} & || \\
\text{\StrBefore\{\}\{\}[\aa]\aa} & || \\
\end{array}$$

La macro \StrBehind

$$\begin{array}{ll}
\text{\StrBehind\{abcedef\}\{e\}} & \text{def} \\
\text{\StrBehind\{abcdef\}\{a\}} & |bcdef| \\
\text{\StrBehind\{abcdef\}\{z\}} & || \\
\text{\StrBehind\{a b c d\}\{c\}} & |\ d| \\
\text{\StrBehind\{a b c d\}\{ \}} & |b\ c\ d| \\
\text{\StrBehind[2]\{a b c d\}\{ \}} & |c\ d| \\
\text{\StrBehind[3]\{a b c d\}\{ \}} & |d| \\
\text{\StrBehind[9]\{a b c d\}\{ \}} & || \\
\text{\StrBehind[-7]\{a b c d\}\{ \}} & || \\
\text{\StrBehind\{abcdef\}\{Z\}} & || \\
\text{\StrBehind\{éàèï\}\{è\}} & \text{ï} \\
\text{\StrBehind\{ÉÀÇ\}\{À\}} & \text{Ç} \\
\text{\StrBehind[1]\{aaaaaa\}\{aa\}} & \text{aaaa} \\
\text{\StrBehind[2]\{aaaaaa\}\{aa\}} & \text{aa} \\
\text{\StrBehind[3]\{aaaaaa\}\{aa\}} & || \\
\text{\StrBehind[4]\{aaaaaa\}\{aa\}} & || \\
\text{\StrBehind\{a\}\{\}} & || \\
\text{\StrBehind\{\}\{a\}} & || \\
\text{\StrBehind\{\}\{\}} & || \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\text{\StrBehind\{abcedef\}\{e\}[\aa]\aa} & \text{def} \\
\text{\StrBehind\{abcdef\}\{a\}[\aa]\aa} & |bcdef| \\
\text{\StrBehind\{abcdef\}\{z\}[\aa]\aa} & || \\
\text{\StrBehind\{a b c d\}\{c\}[\aa]\aa} & |\ d| \\
\text{\StrBehind\{a b c d\}\{ \}[\aa]\aa} & |b\ c\ d| \\
\text{\StrBehind[2]\{a b c d\}\{ \}[\aa]\aa} & |c\ d| \\
\text{\StrBehind[3]\{a b c d\}\{ \}[\aa]\aa} & |d| \\
\text{\StrBehind[9]\{a b c d\}\{ \}[\aa]\aa} & || \\
\text{\StrBehind[-7]\{a b c d\}\{ \}[\aa]\aa} & || \\
\text{\StrBehind\{abcdef\}\{Z\}[\aa]\aa} & || \\
\text{\StrBehind\{éàèï\}\{è\}[\aa]\aa} & \text{ï} \\
\text{\StrBehind\{ÉÀÇ\}\{À\}[\aa]\aa} & \text{Ç} \\
\text{\StrBehind[1]\{aaaaaa\}\{aa\}[\aa]\aa} & \text{aaaa} \\
\text{\StrBehind[2]\{aaaaaa\}\{aa\}[\aa]\aa} & \text{aa} \\
\end{array}$$

```
\StrBehind[3]{aaaaaa}{aa}[\aa]\aa  ||
\StrBehind[4]{aaaaaa}{aa}[\aa]\aa  ||
\StrBehind{a}{}[\aa]\aa  ||
\StrBehind{}{a}[\aa]\aa  ||
\StrBehind{}{}[\aa]\aa  ||
```

La macro \StrBetween

```
\StrBetween{abcdef}{b}{e}  cd
\StrBetween{aZaaaaZa}{Z}{Z}  ||
\StrBetween[1,2]{aZaaaaZa}{Z}{Z}  |aaaa|
\StrBetween{a b c d}{a}{c}  | b |
\StrBetween{a b c d}{a }{ d}  |b c|
\StrBetween{abcdef}{a}{Z}  ||
\StrBetween{abcdef}{Y}{Z}  ||
\StrBetween[2,5]{aAaBaCaDa}{a}{a}  |BaCaD|
\StrBetween[4,1]{ab1ab2ab3ab4ab}{b}{a}  ||
\StrBetween[3,4]{a b c d e f}{ }{ }  |d|
\StrBetween[1,3]{aaaaaa}{aa}{aa}  aa
\StrBetween{éàèï}{é}{ï}  àè
\StrBetween{ÉÀÇ}{É}{Ç}  À
\StrBetween{abcdef}{a}{}  ||
\StrBetween{abcdef}{}{f}  ||
\StrBetween{}{a}{b}  ||
```

Mêmes exemples avec l'argument optionnel :
```
\StrBetween{abcdef}{b}{e}[\aa]\aa  cd
\StrBetween{aZaaaaZa}{Z}{Z}[\aa]\aa  ||
\StrBetween[1,2]{aZaaaaZa}{Z}{Z}[\aa]\aa  |aaaa|
\StrBetween{a b c d}{a}{c}[\aa]\aa  | b |
\StrBetween{a b c d}{a }{ d}[\aa]\aa  |b c|
\StrBetween{abcdef}{a}{Z}[\aa]\aa  ||
\StrBetween{abcdef}{Y}{Z}[\aa]\aa  ||
\StrBetween[2,5]{aAaBaCaDa}{a}{a}[\aa]\aa  |BaCaD|
\StrBetween[4,1]{ab1ab2ab3ab4ab}{b}{a}[\aa]\aa  ||
\StrBetween[3,4]{a b c d e f}{ }{ }[\aa]\aa  |d|
\StrBetween[1,3]{aaaaaa}{aa}{aa}[\aa]\aa  aa
\StrBetween{éàèï}{é}{ï}[\aa]\aa  àè
\StrBetween{ÉÀÇ}{É}{Ç}[\aa]\aa  À
\StrBetween{abcdef}{a}{}[\aa]\aa  ||
\StrBetween{abcdef}{}{f}[\aa]\aa  ||
\StrBetween{}{a}{b}[\aa]\aa  ||
```

La macro \StrSubstitute

```
\StrSubstitute{abcdef}{c}{ZZ}  abZZdef
\StrSubstitute{aaaaaaa}{aa}{w}  wwwa
\StrSubstitute[0]{abacada}{a}{.}  .b.c.d.
\StrSubstitute[1]{abacada}{a}{.}  .bacada
\StrSubstitute[2]{abacada}{a}{.}  .b.cada
\StrSubstitute[3]{abacada}{a}{.}  .b.c.da
\StrSubstitute[4]{abacada}{a}{.}  .b.c.d.
\StrSubstitute[5]{abacada}{a}{.}  .b.c.d.
\StrSubstitute{a b c d e}{ }{,}  a,b,c,d,e
\StrSubstitute{a b c d e}{ }{}  abcde
\StrSubstitute{éàèï}{è}{Z}  éàZï
\StrSubstitute{ÉÀÇ}{Ç}{c}  ÉÀc
\StrSubstitute{abcdef}{}{A}  abcdef
\StrSubstitute{abcdef}{}{}  abcdef
\StrSubstitute{}{a}{b}  ||
\StrSubstitute{}{}{}  ||
```

Mêmes exemples avec l'argument optionnel :
```
\StrSubstitute{abcdef}{c}{ZZ}[\aa]\aa  abZZdef
\StrSubstitute{aaaaaaa}{aa}{w}[\aa]\aa  wwwa
\StrSubstitute[0]{abacada}{a}{.}[\aa]\aa  .b.c.d.
\StrSubstitute[1]{abacada}{a}{.}[\aa]\aa  .bacada
```

\StrSubstitute[2]{abacada}{a}{.}[\aa]\aa	.b.cada
\StrSubstitute[3]{abacada}{a}{.}[\aa]\aa	.b.c.da
\StrSubstitute[4]{abacada}{a}{.}[\aa]\aa	.b.c.d.
\StrSubstitute[5]{abacada}{a}{.}[\aa]\aa	.b.c.d.
\StrSubstitute{a b c d e}{ }{,}[\aa]\aa	a,b,c,d,e
\StrSubstitute{a b c d e}{ }{}[\aa]\aa	abcde
\StrSubstitute{éàèï}{è}{Z}[\aa]\aa	éàZï
\StrSubstitute{ÉÀÇ}{Ç}{c}[\aa]\aa	ÉÀc
\StrSubstitute{abcdef}{}{A}[\aa]\aa	abcdef
\StrSubstitute{abcdef}{}{}[\aa]\aa	abcdef
\StrSubstitute{}{a}{b}[\aa]\aa	‖
\StrSubstitute{}{}{}[\aa]\aa	‖

La macro \StrDel

\StrDel{a1a2a3a4}{a}	1234
\StrDel[2]{a1a2a3a4}{a}	12a3a4
\StrDel[-2]{a1a2a3a4}{a}	1234
\StrDel[10]{a1a2a3a4}{a}	1234
\StrDel[3]{a b c d e}{a}	b c d e

Mêmes exemples avec l'argument optionnel :

\StrDel{a1a2a3a4}{a}[\aa]\aa	1234
\StrDel[2]{a1a2a3a4}{a}[\aa]\aa	12a3a4
\StrDel[-2]{a1a2a3a4}{a}[\aa]\aa	1234
\StrDel[10]{a1a2a3a4}{a}[\aa]\aa	1234
\StrDel[3]{a b c d e}{a}[\aa]\aa	b c d e

La macro \StrLen

\StrLen{abcdef}	6
\StrLen{a b c}	5
\StrLen{ a b c }	7
\StrLen{a}	1
\StrLen{éàèï}	4
\StrLen{ÉÀÇ}	3
\StrLen{}	0

Mêmes exemples avec l'argument optionnel :

\StrLen{abcdef}[\aa]\aa	6
\StrLen{a b c}[\aa]\aa	5
\StrLen{ a b c }[\aa]\aa	7
\StrLen{a}[\aa]\aa	1
\StrLen{éàèï}[\aa]\aa	4
\StrLen{ÉÀÇ}[\aa]\aa	3
\StrLen{}[\aa]\aa	0

la macro \StrSplit

\StrSplit{abcde}{3}{\xx}{\yy}\#\xx\#\quad\#\yy\#	#abc# #de#
\StrSplit{abcde}{1}{\xx}{\yy}\#\xx\#\quad\#\yy\#	#a# #bcde#
\StrSplit{abcde}{0}{\xx}{\yy}\#\xx\#\quad\#\yy\#	## #abcde#
\StrSplit{abcde}{-5}{\xx}{\yy}\#\xx\#\quad\#\yy\#	## #abcde#
\StrSplit{abcde}{20}{\xx}{\yy}\#\xx\#\quad\#\yy\#	#abcde# ##
\StrSplit{a b c}{4}{\xx}{\yy}\#\xx\#\quad\#\yy\#	#a b # #c#
\StrSplit{éàçù}{2}{\xx}{\yy}\#\xx\#\quad\#\yy\#	#éà# #çù#
\StrSplit{}{3}{\xx}{\yy}\#\xx\#\quad\#\yy\#	## ##

la macro \StrMid

\StrMid{abcdef}{2}{5}	bcde
\StrMid{a b c d}{2}{6}	ǀ b c ǀ
\StrMid{abcdef}{4}{2}	‖
\StrMid{abcdef}{-4}{3}	abc
\StrMid{abcdef}{-4}{-1}	‖
\StrMid{abcdef}{-4}{20}	abcdef
\StrMid{abcdef}{8}{10}	‖
\StrMid{abcdef}{2}{2}	b
\StrMid{éàèï}{2}{3}	àè

`\StrMid{ÉÀÇ}{2}{3}`	ÀÇ
`\StrMid{aaaaaa}{3}{6}`	aaaa
`\StrMid{}{4}{5}`	||

Mêmes exemples avec l'argument optionnel :

`\StrMid{abcdef}{2}{5}[\aa]\aa`	bcde
`\StrMid{a b c d}{2}{6}[\aa]\aa`	| b c |
`\StrMid{abcdef}{4}{2}[\aa]\aa`	||
`\StrMid{abcdef}{-4}{3}[\aa]\aa`	abc
`\StrMid{abcdef}{-4}{-1}[\aa]\aa`	||
`\StrMid{abcdef}{-4}{20}[\aa]\aa`	abcdef
`\StrMid{abcdef}{8}{10}[\aa]\aa`	||
`\StrMid{abcdef}{2}{2}[\aa]\aa`	b
`\StrMid{éàèï}{2}{3}[\aa]\aa`	àè
`\StrMid{ÉÀÇ}{2}{3}[\aa]\aa`	ÀÇ
`\StrMid{aaaaaa}{3}{6}[\aa]\aa`	aaaa
`\StrMid{}{4}{5}[\aa]\aa`	||

La macro `\StrGobbleLeft`

`\StrGobbleLeft{abcdef}{3}`	def
`\StrGobbleLeft{a b c d}{3}`	| c d|
`\StrGobbleLeft{abcdef}{-3}`	abcdef
`\StrGobbleLeft{abcdef}{9}`	||
`\StrGobbleLeft{éàèï}{2}`	èï
`\StrGobbleLeft{ÉÀÇ}{1}`	ÀÇ
`\StrGobbleLeft{aaaaa}{4}`	a
`\StrGobbleLeft{}{2}`	||

Mêmes exemples avec l'argument optionnel :

`\StrGobbleLeft{abcdef}{3}[\aa]\aa`	def
`\StrGobbleLeft{a b c d}{3}[\aa]\aa`	| c d|
`\StrGobbleLeft{abcdef}{-3}[\aa]\aa`	abcdef
`\StrGobbleLeft{abcdef}{9}[\aa]\aa`	||
`\StrGobbleLeft{éàèï}{2}[\aa]\aa`	èï
`\StrGobbleLeft{ÉÀÇ}{1}[\aa]\aa`	ÀÇ
`\StrGobbleLeft{aaaaa}{4}[\aa]\aa`	a
`\StrGobbleLeft{}{2}[\aa]\aa`	||

La macro `\StrGobbleRight`

`\StrGobbleRight{abcdef}{3}`	abc
`\StrGobbleRight{a b c d}{3}`	|a b |
`\StrGobbleRight{abcdef}{-3}`	abcdef
`\StrGobbleRight{abcdef}{9}`	||
`\StrGobbleRight{éàèï}{2}`	éà
`\StrGobbleRight{ÉÀÇ}{1}`	ÉÀ
`\StrGobbleRight{aaaaa}{4}`	a
`\StrGobbleRight{}{2}`	||

Mêmes exemples avec l'argument optionnel :

`\StrGobbleRight{abcdef}{3}[\aa]\aa`	abc
`\StrGobbleRight{a b c d}{3}[\aa]\aa`	|a b |
`\StrGobbleRight{abcdef}{-3}[\aa]\aa`	abcdef
`\StrGobbleRight{abcdef}{9}[\aa]\aa`	||
`\StrGobbleRight{éàèï}{2}[\aa]\aa`	éà
`\StrGobbleRight{ÉÀÇ}{1}[\aa]\aa`	ÉÀ
`\StrGobbleRight{aaaaa}{4}[\aa]\aa`	a
`\StrGobbleRight{}{2}[\aa]\aa`	||

La macro `\StrLeft`

`\StrLeft{abcdef}{3}`	abc
`\StrLeft{a b c d}{3}`	|a b|
`\StrLeft{abcdef}{-3}`	||
`\StrLeft{abcdef}{9}`	|abcdef|
`\StrLeft{éàèï}{2}`	éà
`\StrLeft{ÉÀÇ}{1}`	É

$$\begin{array}{ll}
\texttt{\textbackslash StrLeft\{aaaaa\}\{4\}} & \text{aaaa} \\
\texttt{\textbackslash StrLeft\{\}\{2\}} & || \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\texttt{\textbackslash StrLeft\{abcdef\}\{3\}[\textbackslash aa]\textbackslash aa} & \text{abc} \\
\texttt{\textbackslash StrLeft\{a b c d\}\{3\}[\textbackslash aa]\textbackslash aa} & |\text{a b}| \\
\texttt{\textbackslash StrLeft\{abcdef\}\{-3\}[\textbackslash aa]\textbackslash aa} & || \\
\texttt{\textbackslash StrLeft\{abcdef\}\{9\}[\textbackslash aa]\textbackslash aa} & |\text{abcdef}| \\
\texttt{\textbackslash StrLeft\{éàèï\}\{2\}[\textbackslash aa]\textbackslash aa} & \text{éà} \\
\texttt{\textbackslash StrLeft\{ÉÀÇ\}\{1\}[\textbackslash aa]\textbackslash aa} & \text{É} \\
\texttt{\textbackslash StrLeft\{aaaaa\}\{4\}[\textbackslash aa]\textbackslash aa} & \text{aaaa} \\
\texttt{\textbackslash StrLeft\{\}\{2\}[\textbackslash aa]\textbackslash aa} & || \\
\end{array}$$

La macro \StrRight

$$\begin{array}{ll}
\texttt{\textbackslash StrRight\{abcdef\}\{3\}} & \text{def} \\
\texttt{\textbackslash StrRight\{a b c d\}\{3\}} & |\text{c d}| \\
\texttt{\textbackslash StrRight\{abcdef\}\{-3\}} & || \\
\texttt{\textbackslash StrRight\{abcdef\}\{9\}} & |\text{abcdef}| \\
\texttt{\textbackslash StrRight\{éàèï\}\{2\}} & \text{èï} \\
\texttt{\textbackslash StrRight\{ÉÀÇ\}\{1\}} & \text{Ç} \\
\texttt{\textbackslash StrRight\{aaaaa\}\{4\}} & \text{aaaa} \\
\texttt{\textbackslash StrRight\{\}\{2\}} & || \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\texttt{\textbackslash StrRight\{abcdef\}\{3\}[\textbackslash aa]\textbackslash aa} & \text{def} \\
\texttt{\textbackslash StrRight\{a b c d\}\{3\}[\textbackslash aa]\textbackslash aa} & |\text{c d}| \\
\texttt{\textbackslash StrRight\{abcdef\}\{-3\}[\textbackslash aa]\textbackslash aa} & || \\
\texttt{\textbackslash StrRight\{abcdef\}\{9\}[\textbackslash aa]\textbackslash aa} & |\text{abcdef}| \\
\texttt{\textbackslash StrRight\{éàèï\}\{2\}[\textbackslash aa]\textbackslash aa} & \text{èï} \\
\texttt{\textbackslash StrRight\{ÉÀÇ\}\{1\}[\textbackslash aa]\textbackslash aa} & \text{Ç} \\
\texttt{\textbackslash StrRight\{aaaaa\}\{4\}[\textbackslash aa]\textbackslash aa} & \text{aaaa} \\
\texttt{\textbackslash StrRight\{\}\{2\}[\textbackslash aa]\textbackslash aa} & || \\
\end{array}$$

la macro \StrChar

$$\begin{array}{ll}
\texttt{\textbackslash StrChar\{abcdef\}\{5\}} & \text{e} \\
\texttt{\textbackslash StrChar\{a b c d\}\{4\}} & | \; | \\
\texttt{\textbackslash StrChar\{a b c d\}\{7\}} & \text{d} \\
\texttt{\textbackslash StrChar\{abcdef\}\{10\}} & || \\
\texttt{\textbackslash StrChar\{abcdef\}\{-5\}} & || \\
\texttt{\textbackslash StrChar\{\}\{3\}} & || \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\texttt{\textbackslash StrChar\{abcdef\}\{5\}[\textbackslash aa]\textbackslash aa} & \text{e} \\
\texttt{\textbackslash StrChar\{a b c d\}\{4\}[\textbackslash aa]\textbackslash aa} & | \; | \\
\texttt{\textbackslash StrChar\{a b c d\}\{7\}[\textbackslash aa]\textbackslash aa} & \text{d} \\
\texttt{\textbackslash StrChar\{abcdef\}\{10\}[\textbackslash aa]\textbackslash aa} & || \\
\texttt{\textbackslash StrChar\{abcdef\}\{-5\}[\textbackslash aa]\textbackslash aa} & || \\
\texttt{\textbackslash StrChar\{\}\{3\}[\textbackslash aa]\textbackslash aa} & || \\
\end{array}$$

La macro \StrCount

$$\begin{array}{ll}
\texttt{\textbackslash StrCount\{abcdef\}\{d\}} & 1 \\
\texttt{\textbackslash StrCount\{a b c d\}\{ \}} & 3 \\
\texttt{\textbackslash StrCount\{aaaaaa\}\{aa\}} & 3 \\
\texttt{\textbackslash StrCount\{étété\}\{é\}} & 3 \\
\texttt{\textbackslash StrCount\{abcdef\}\{Z\}} & 0 \\
\texttt{\textbackslash StrCount\{éàèï\}\{é\}} & 1 \\
\texttt{\textbackslash StrCount\{ÉÀÇ\}\{Ç\}} & 1 \\
\texttt{\textbackslash StrCount\{abcdef\}\{\}} & 0 \\
\texttt{\textbackslash StrCount\{\}\{a\}} & 0 \\
\texttt{\textbackslash StrCount\{\}\{\}} & 0 \\
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\texttt{\textbackslash StrCount\{abcdef\}\{d\}[\textbackslash aa]\textbackslash aa} & 1 \\
\texttt{\textbackslash StrCount\{a b c d\}\{ \}[\textbackslash aa]\textbackslash aa} & 3 \\
\texttt{\textbackslash StrCount\{aaaaaa\}\{aa\}[\textbackslash aa]\textbackslash aa} & 3 \\
\end{array}$$

$$\begin{array}{ll}
\text{\StrCount\{étété\}\{é\}[\textbackslash aa]\textbackslash aa} & 3 \\
\text{\StrCount\{abcdef\}\{Z\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrCount\{éàëï\}\{é\}[\textbackslash aa]\textbackslash aa} & 1 \\
\text{\StrCount\{ÉÀÇ\}\{Ç\}[\textbackslash aa]\textbackslash aa} & 1 \\
\text{\StrCount\{abcdef\}\{\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrCount\{\}\{a\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrCount\{\}\{\}[\textbackslash aa]\textbackslash aa} & 0
\end{array}$$

La macro \StrPosition

$$\begin{array}{ll}
\text{\StrPosition\{abcdef\}\{c\}} & 3 \\
\text{\StrPosition\{abcdef\}\{Z\}} & 0 \\
\text{\StrPosition\{a b c d\}\{ \}} & 2 \\
\text{\StrPosition[3]\{a b c d\}\{ \}} & 6 \\
\text{\StrPosition[8]\{a b c d\}\{ \}} & 0 \\
\text{\StrPosition\{étété\}\{é\}} & 1 \\
\text{\StrPosition[3]\{étété\}\{é\}} & 5 \\
\text{\StrPosition[5]\{étété\}\{é\}} & 0 \\
\text{\StrPosition\{aaaaaa\}\{aa\}} & 1 \\
\text{\StrPosition[2]\{aaaaaa\}\{aa\}} & 3 \\
\text{\StrPosition[3]\{aaaaaa\}\{aa\}} & 5 \\
\text{\StrPosition\{éàëï\}\{è\}} & 3 \\
\text{\StrPosition\{ÉÀÇ\}\{À\}} & 2 \\
\text{\StrPosition\{abcdef\}\{\}} & 0 \\
\text{\StrPosition\{\}\{a\}} & 0 \\
\text{\StrPosition\{\}\{\}} & 0
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\text{\StrPosition\{abcdef\}\{c\}[\textbackslash aa]\textbackslash aa} & 3 \\
\text{\StrPosition\{abcdef\}\{Z\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrPosition\{a b c d\}\{ \}[\textbackslash aa]\textbackslash aa} & 2 \\
\text{\StrPosition[3]\{a b c d\}\{ \}[\textbackslash aa]\textbackslash aa} & 6 \\
\text{\StrPosition[8]\{a b c d\}\{ \}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrPosition\{étété\}\{é\}[\textbackslash aa]\textbackslash aa} & 1 \\
\text{\StrPosition[3]\{étété\}\{é\}[\textbackslash aa]\textbackslash aa} & 5 \\
\text{\StrPosition[5]\{étété\}\{é\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrPosition\{aaaaaa\}\{aa\}[\textbackslash aa]\textbackslash aa} & 1 \\
\text{\StrPosition[2]\{aaaaaa\}\{aa\}[\textbackslash aa]\textbackslash aa} & 3 \\
\text{\StrPosition[3]\{aaaaaa\}\{aa\}[\textbackslash aa]\textbackslash aa} & 5 \\
\text{\StrPosition\{éàëï\}\{è\}[\textbackslash aa]\textbackslash aa} & 3 \\
\text{\StrPosition\{ÉÀÇ\}\{À\}[\textbackslash aa]\textbackslash aa} & 2 \\
\text{\StrPosition\{abcdef\}\{\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrPosition\{\}\{a\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrPosition\{\}\{\}[\textbackslash aa]\textbackslash aa} & 0
\end{array}$$

La macro \StrCompare

La tolérance normale :

$$\begin{array}{ll}
\text{\StrCompare\{abcdefghij\}\{abc\}} & 0 \\
\text{\StrCompare\{A\}\{A\}} & 0 \\
\text{\StrCompare\{éçà\}\{éçà\}} & 0 \\
\text{\StrCompare\{abcdef\}\{a bd\}} & 2 \\
\text{\StrCompare\{ \}\{ \}} & 0 \\
\text{\StrCompare\{\}\{abcd\}} & 0 \\
\text{\StrCompare\{abcd\}\{\}} & 0 \\
\text{\StrCompare\{123456\}\{1234\}} & 0 \\
\text{\StrCompare\{a b c d\}\{a bcd\}} & 4 \\
\text{\StrCompare\{\}\{\}} & 0 \\
\text{\StrCompare\{eee\}\{eeee\}} & 0 \\
\text{\StrCompare\{eeee\}\{eee\}} & 0 \\
\text{\StrCompare\{totutu\}\{tututu\}} & 2 \\
\text{\StrCompare\{abcd\}\{abyz\}} & 3
\end{array}$$

Mêmes exemples avec l'argument optionnel :

$$\begin{array}{ll}
\text{\StrCompare\{abcdefghij\}\{abc\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrCompare\{A\}\{A\}[\textbackslash aa]\textbackslash aa} & 0 \\
\text{\StrCompare\{éçà\}\{éçà\}[\textbackslash aa]\textbackslash aa} & 0
\end{array}$$

```
\StrCompare{abcdef}{a bd}[\aa]\aa    2
\StrCompare{ }{ }[\aa]\aa            0
\StrCompare{}{abcd}[\aa]\aa          0
\StrCompare{abcd}{}[\aa]\aa          0
\StrCompare{123456}{1234}[\aa]\aa    0
\StrCompare{a b c d}{a bcd}[\aa]\aa  4
\StrCompare{}{}[\aa]\aa              0
\StrCompare{eee}{eeee}[\aa]\aa       0
\StrCompare{eeee}{eee}[\aa]\aa       0
\StrCompare{totutu}{tututu}[\aa]\aa  2
\StrCompare{abcd}{abyz}[\aa]\aa      3
```

La tolérance stricte :

```
\StrCompare{abcdefghij}{abc}    4
\StrCompare{A}{A}               0
\StrCompare{éçà}{éçà}           0
\StrCompare{abcdef}{a bd}       2
\StrCompare{ }{ }               0
\StrCompare{}{abcd}             1
\StrCompare{abcd}{}             1
\StrCompare{123456}{1234}       5
\StrCompare{a b c d}{a bcd}     4
\StrCompare{}{}                 0
\StrCompare{eee}{eeee}          4
\StrCompare{eeee}{eee}          4
\StrCompare{totutu}{tututu}     2
\StrCompare{abcd}{abyz}         3
```

Mêmes exemples avec l'argument optionnel :

```
\StrCompare{abcdefghij}{abc}[\aa]\aa    4
\StrCompare{A}{A}[\aa]\aa               0
\StrCompare{éçà}{éçà}[\aa]\aa           0
\StrCompare{abcdef}{a bd}[\aa]\aa       2
\StrCompare{ }{ }[\aa]\aa               0
\StrCompare{}{abcd}[\aa]\aa             1
\StrCompare{abcd}{}[\aa]\aa             1
\StrCompare{123456}{1234}[\aa]\aa       5
\StrCompare{a b c d}{a bcd}[\aa]\aa     4
\StrCompare{}{}[\aa]\aa                 0
\StrCompare{eee}{eeee}[\aa]\aa          4
\StrCompare{eeee}{eee}[\aa]\aa          4
\StrCompare{totutu}{tututu}[\aa]\aa     2
\StrCompare{abcd}{abyz}[\aa]\aa         3
```

Le mode \noexpandarg

Dans toute la suite sauf si c'est précisé, la commande \noexpandarg est activée.

Le test \IfSubStr

```
                                       \noexploregroups
\IfSubStr{1$2$\a{34}\bc5}{2}{vrai}{faux}            vrai
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux}           faux
\IfSubStr{1$2$\a{34}\bc5}{{34}}{vrai}{faux}         vrai
\IfSubStr{1$2$\a{34}\bc5}{\b}{vrai}{faux}           faux
\IfSubStr{1$2$\a{34}\bc5}{\bc}{vrai}{faux}          vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux}         vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc{5}}{vrai}{faux}       faux
\IfSubStr[1]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}   vrai
\IfSubStr[2]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}   vrai
\IfSubStr[3]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}   faux
\IfSubStr[4]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}   faux
```

\IfSubStr{1$2$\a{34}\bc5}{2}{vrai}{faux}	vrai
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux}	vrai
\IfSubStr{1$2$\a{34}\bc5}{{34}}{vrai}{faux}	vrai
\IfSubStr{1$2$\a{34}\bc5}{\b}{vrai}{faux}	faux
\IfSubStr{1$2$\a{34}\bc5}{\bc}{vrai}{faux}	vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux}	vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc{5}}{vrai}{faux}	faux
\IfSubStr[1]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}	vrai
\IfSubStr[2]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}	vrai
\IfSubStr[3]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}	vrai
\IfSubStr[4]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux}	vrai

Le test \IfBeginWith

Les tests doivent donner des résultats identiques ci-dessous puisque \IfBeginWith est indifférent au mode d'exploration des groupes !

\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux}	faux
\IfBeginWith{{\a}123\b456}{{\a}}{vrai}{faux}	vrai
\IfBeginWith{{\a1}\b\c\d}{\a}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{12}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{1}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{{1}2}{vrai}{faux}	vrai

\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux}	faux
\IfBeginWith{{\a}123\b456}{{\a}}{vrai}{faux}	vrai
\IfBeginWith{{\a1}\b\c\d}{\a}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{12}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{1}{vrai}{faux}	faux
\IfBeginWith{{1}23456}{{1}2}{vrai}{faux}	vrai

Le test \IfEndWith

Les tests doivent donner des résultats identiques ci-dessous puisque \IfEndWith est indifférent au mode d'exploration des groupes !

\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux}	faux
\IfEndWith{\a1\b2{\c3}}{{\c3}}{vrai}{faux}	vrai
\IfEndWith{\a1\b2{\c3}}{3}{vrai}{faux}	faux
\IfEndWith{12345{6}}{56}{vrai}{faux}	faux
\IfEndWith{12345{6}}{6}{vrai}{faux}	faux
\IfEndWith{12345{6}}{5{6}}{vrai}{faux}	vrai

\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux}	faux
\IfEndWith{\a1\b2{\c3}}{{\c3}}{vrai}{faux}	vrai
\IfEndWith{\a1\b2{\c3}}{3}{vrai}{faux}	faux
\IfEndWith{12345{6}}{56}{vrai}{faux}	faux
\IfEndWith{12345{6}}{6}{vrai}{faux}	faux
\IfEndWith{12345{6}}{5{6}}{vrai}{faux}	vrai

Le test \IfSubStrBefore

\IfSubStrBefore[1,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}	vrai
\IfSubStrBefore[2,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}	faux
\IfSubStrBefore[2,3]{\a1\a2\a3\b1\b2\b3}{\a}{\b}{vrai}{faux}	vrai
\IfSubStrBefore[1,1]{\a1{\a2\a3\b1}\b2\b3}{2}{\b}{vrai}{faux}	faux
\IfSubStrBefore[1,2]{\a1{\a2\a3\b1}\b2\b3}{3}{\b}{vrai}{faux}	faux

\IfSubStrBefore[1,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}	vrai
\IfSubStrBefore[2,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}	faux
\IfSubStrBefore[2,3]{\a1\a2\a3\b1\b2\b3}{\a}{\b}{vrai}{faux}	vrai
\IfSubStrBefore[1,1]{\a1{\a2\a3\b1}\b2\b3}{2}{\b}{vrai}{faux}	vrai
\IfSubStrBefore[1,2]{\a1{\a2\a3\b1}\b2\b3}{3}{\b}{vrai}{faux}	vrai

Le test \IfStrBehind

`\noexploregroups`	
`\IfSubStrBehind[2,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}`	vrai
`\IfSubStrBehind[3,1]{\a1\a2\a3\b1\b2\b3}{\a}{\b}{vrai}{faux}`	faux
`\IfSubStrBehind[1,1]{\a1\a2\a3\b1\b2\b3}{\b}{3}{vrai}{faux}`	vrai
`\IfSubStrBehind[2,1]{\a1{\a2\a3\b1}\b2\b3}{\b}{3}{vrai}{faux}`	faux
`\IfSubStrBehind[1,1]{\a1{\a2\a3\b1}\b2\b3}{3}{\b}{vrai}{faux}`	vrai
`\exploregroups`	
`\IfSubStrBehind[2,1]{\a1\a2\a3\b1\b2\b3}{2}{\b}{vrai}{faux}`	vrai
`\IfSubStrBehind[3,1]{\a1\a2\a3\b1\b2\b3}{\a}{\b}{vrai}{faux}`	faux
`\IfSubStrBehind[1,1]{\a1\a2\a3\b1\b2\b3}{\b}{3}{vrai}{faux}`	vrai
`\IfSubStrBehind[2,1]{\a1{\a2\a3\b1}\b2\b3}{\b}{3}{vrai}{faux}`	vrai
`\IfSubStrBehind[1,1]{\a1{\a2\a3\b1}\b2\b3}{3}{\b}{vrai}{faux}`	faux

Le test `\IfInteger`

Dans les exemples ci-dessous, on examine la différence de comportement de la macro `\IfInteger` selon les modes de développement des arguments.

`\def\nbA{-12}\def\nbB{498}`	
`\def\nbAA{\nbA}\def\nbBB{\nbB}`	
`\fullexpandarg`	
`\IfInteger{\nbA}{vrai}{faux}`	vrai
`\IfInteger{\nbA5\nbA}{vrai}{faux}`	faux
`\IfInteger{\nbA6\nbB}{vrai}{faux}`	vrai
`\IfInteger{\nbAA7\nbBB}{vrai}{faux}`	vrai
`\expandarg`	
`\IfInteger{\nbA}{vrai}{faux}`	vrai
`\IfInteger{\nbA5\nbA}{vrai}{faux}`	faux
`\IfInteger{\nbA6\nbB}{vrai}{faux}`	vrai
`\IfInteger{\nbAA7\nbBB}{vrai}{faux}`	faux
`\noexpandarg`	
`\IfInteger{\nbA}{vrai}{faux}`	faux
`\IfInteger{\nbA5\nbA}{vrai}{faux}`	faux
`\IfInteger{\nbA6\nbB}{vrai}{faux}`	faux
`\IfInteger{\nbAA7\nbBB}{vrai}{faux}`	faux

Le test `\IfDecimal`

Dans les exemples ci-dessous, on examine la différence de comportement de la macro `\IfDecimal` selon les modes de développement des arguments.

`\def\nbA{-12}\def\nbB{498}`	
`\def\nbAA{\nbA}\def\nbBB{\nbB}`	
`\fullexpandarg`	
`\IfDecimal{\nbA,\nbB}{vrai}{faux}`	vrai
`\IfDecimal{\nbAA.\nbB}{vrai}{faux}`	vrai
`\IfDecimal{\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{3\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{\nbB,\nbB}{vrai}{faux}`	vrai
`\expandarg`	
`\IfDecimal{\nbA,\nbB}{vrai}{faux}`	vrai
`\IfDecimal{\nbAA.\nbB}{vrai}{faux}`	faux
`\IfDecimal{\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{3\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{\nbB,\nbB}{vrai}{faux}`	vrai
`\noexpandarg`	
`\IfDecimal{\nbA,\nbB}{vrai}{faux}`	faux
`\IfDecimal{\nbAA.\nbB}{vrai}{faux}`	faux
`\IfDecimal{\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{3\nbB,777}{vrai}{faux}`	vrai
`\IfDecimal{\nbB,\nbB}{vrai}{faux}`	vrai

La macro `\StrBefore`

`\noexploregroups`	
`\StrBefore[2]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]`	
`\detokenize\expandafter{\cmd}`	1\a 2
`\StrBefore[3]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]`	

$$\verb|\detokenize\expandafter{\cmd}| \quad 1\backslash\text{a } 2\backslash\text{a } 3\{4\backslash\text{a } 5\{6\backslash\text{a } 7\}8\backslash\text{a }\}9$$

```
\StrBefore[4]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
\StrBefore[5]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
\StrBefore[6]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
                                       \exploregroups
\StrBefore[2]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   1\a 2
\StrBefore[3]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   4
\StrBefore[4]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   6
\StrBefore[5]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   4\a 5{6\a 7}8
\StrBefore[6]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   1\a 2\a 3{4\a 5{6\a 7}8\a }9
```

La macro \StrBehind

```
                                       \noexploregroups
\StrBehind[2]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   3{4\a 5{6\a 7}8\a }9\a 0
\StrBehind[3]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   0
\StrBehind[4]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
\StrBehind[5]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
\StrBehind[6]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
                                       \exploregroups
\StrBehind[2]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   3{4\a 5{6\a 7}8\a }9\a 0
\StrBehind[3]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   5{6\a 7}8\a
\StrBehind[4]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   7
\StrBehind[5]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}
\StrBehind[6]{1\a2\a3{4\a5{6\a7}8\a}9\a0}{\a}[\cmd]
                            \detokenize\expandafter{\cmd}   0
```

La macro \StrBetween

La commande \StrBetween opère en mode \noexploregroups, quelque soit le mode d'exploration en cours.

```
\StrBetween[1,3]{\a1\a2{3\a4}5\a6{7\a8}9\a0}{2}{\a}[\cmd]
                               \detokenize\expandafter{\cmd}   {3\a 4}5
\StrBetween[2,3]{\a1\a2{3\a4}5\a6{7\a8}9\a0}{\a}{\a}[\cmd]
                               \detokenize\expandafter{\cmd}   2{3\a 4}5
\StrBetween[1,3]{\a1\a2{3\a4}5\a6{7\a8}9\a0}{3}{\a}[\cmd]
                               \detokenize\expandafter{\cmd}
\StrBetween[2,4]{\a1\a2{3\a4}5\a6{7\a8}9\a0}{\a}{\a}[\cmd]
                               \detokenize\expandafter{\cmd}   2{3\a 4}5\a 6{7\a 8}9
```

La macro \StrSubstitute

```
                                       \noexploregroups
\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{\a}{\X}[\cmd]
                            \detokenize\expandafter{\cmd}   \X 1{2\a {3\a }4\a }\X 5\X
\StrSubstitute[2]{\a1{2\a{3\a}4\a}\a5\a}{\a}{\X}[\cmd]
```

$\detokenize\expandafter{\cmd}$ \qquad `\X 1{2\a {3\a }4\a }\X 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{2}{X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{{3\a}}{XXX}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{3\a}{XXX}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\StrSubstitute{a1{b1\bgroup c1}\egroup d1}{1}{X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `aX{b1\bgroup c1}\egroup dX`

`\exploregroups`
`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{\a}{\X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\X 1{2\X {3\X }4\X }\X 5\X`

`\StrSubstitute[2]{\a1{2\a{3\a}4\a}\a5\a}{\a}{\X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\X 1{2\X {3\a }4\a }\a 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{2}{X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{X\a {3\a }4\a }\a 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{{3\a}}{XXX}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a XXX4\a }\a 5\a`

`\StrSubstitute{\a1{2\a{3\a}4\a}\a5\a}{3\a}{XXX}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {XXX}4\a }\a 5\a`

`\StrSubstitute{a1{b1\bgroup c1}\egroup d1}{1}{X}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `aX{bX\bgroup cX}\egroup dX`

La macro `\StrDel`

`\noexploregroups`
`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `1{2\a {3\a }4\a }5`

`\StrDel[2]{\a1{2\a{3\a}4\a}\a5\a}{\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `1{2\a {3\a }4\a }5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{2}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{{3\a}}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{3\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {3\a }4\a }\a 5\a`

`\exploregroups`
`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `1{2{3}4}5`

`\StrDel[2]{\a1{2\a{3\a}4\a}\a5\a}{\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `1{2{3\a }4\a }\a 5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{2}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{\a {3\a }4\a }\a 5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{{3\a}}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a 4\a }\a 5\a`

`\StrDel{\a1{2\a{3\a}4\a}\a5\a}{3\a}[\cmd]`
`\detokenize\expandafter{\cmd}` \qquad `\a 1{2\a {}4\a }\a 5\a`

La macro `\StrLen`

`\noexploregroups`
`\StrLen{a1{a2}{\a\b}{a3}a4}` \qquad 7
`\exploregroups`
`\StrLen{a1{a2}{\a\b}{a3}a4}` \qquad 10

la macro `\StrSplit`

`\noexploregroups`
`\StrSplit{\a{\b{\c\d}\e}\f\g}{2}\xx\yy`
`\#\detokenize\expandafter{\xx}\#\quad\#\detokenize\expandafter{\yy}\#` \qquad `#\a {\b {\c \d }\e }#   #\f \g #`
`\StrSplit{\a{\b{\c\d}\e}\f\g}{3}\xx\yy`
`\#\detokenize\expandafter{\xx}\#\quad\#\detokenize\expandafter{\yy}\#` \qquad `#\a {\b {\c \d }\e }\f #   #\g #`
`\exploregroups`

$$\StrSplit{\a{\b{\c\d}\e}\f\g}{2}\xx\yy$$
$$\#\detokenize\expandafter{\xx}\#\quad\#\detokenize\expandafter{\yy}\# \quad \#\b \# \quad \#{\c \d }\e \#$$
$$\StrSplit{\a{\b{\c\d}\e}\f\g}{3}\xx\yy$$
$$\#\detokenize\expandafter{\xx}\#\quad\#\detokenize\expandafter{\yy}\# \quad \#\c \# \quad \#\d \#$$

la macro \StrMid

La commande \StrMid opère en mode \noexploregroups, quelque soit le mode d'exploration en cours.

$$\StrMid{\a\b{\c\d}\e\f\g\h}{2}{6}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \b {\c \d }\e \f \g$$

$$\StrMid{\a\b{\c\d}\e\f\g\h}{3}{4}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad {\c \d }\e$$

La macro \StrGobbleLeft

$$\noexploregroups$$
$$\StrGobbleLeft{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \f$$
$$\exploregroups$$
$$\StrGobbleLeft{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \d \e$$

La macro \StrGobbleRight

$$\noexploregroups$$
$$\StrGobbleRight{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \a$$
$$\exploregroups$$
$$\StrGobbleRight{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \c$$

La macro \StrLeft

$$\noexploregroups$$
$$\StrLeft{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \a \b {\c \d \e }$$
$$\exploregroups$$
$$\StrLeft{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \c$$

La macro \StrRight

$$\noexploregroups$$
$$\StrRight{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \b {\c \d \e }\f$$
$$\exploregroups$$
$$\StrRight{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \d \e$$

la macro \StrChar

$$\noexploregroups$$
$$\StrChar{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad {\c \d \e }$$
$$\exploregroups$$
$$\StrChar{\a\b{\c\d\e}\f}{3}[\cmd]$$
$$\detokenize\expandafter{\cmd} \quad \c$$

La macro \StrCount

$$\noexploregroups$$
$$\StrCount{\a1{\a2{\a3\a4}\a5}\a6\a7}{\a} \quad 3$$
$$\StrCount{\a1{\a2{\a3\a4}\a5}\a6\a7}{2} \quad 0$$
$$\exploregroups$$
$$\StrCount{\a1{\a2{\a3\a4}\a5}\a6\a7}{\a} \quad 7$$
$$\StrCount{\a1{\a2{\a3\a4}\a5}\a6\a7}{2} \quad 1$$

La macro \StrPosition

\StrPosition[3]{\a0\a1{\a{2\a3}4}\a5\a6}{\a} 6
\StrPosition[4]{\a0\a1{\a{3\a4}5}\a6\a7}{\a} 8
\StrPosition[1]{\a0\a1{\a{2\a3}4}\a5\a6}{2} 0
\exploregroups
\StrPosition[3]{\a0\a1{\a{2\a3}4}\a5\a6}{\a} 1
\StrPosition[4]{\a0\a1{\a{2\a3}4}\a5\a6}{\a} 2
\StrPosition[1]{\a0\a1{\a{2\a3}4}\a5\a6}{2} 1

La macro \StrCompare

La commande \StrCompare n'est pas affectée par le mode d'exploration.

\comparenormal
\StrCompare{\a{\b1}\c2}{\a\b1\c2} 2
\StrCompare{{1\a2}3}{{1\a2}3} 0
\StrCompare{{1\a2}3}{1\a23} 1
\StrCompare{\a{\b\c}}{\a{\b\c}\d} 0
\StrCompare{{\a}\b}{\a\b} 1
\comparestrict
\StrCompare{\a{\b1}\c2}{\a\b1\c2} 2
\StrCompare{{1\a2}3}{{1\a2}3} 0
\StrCompare{{1\a2}3}{1\a23} 1
\StrCompare{\a{\b\c}}{\a{\b\c}\d} 3
\StrCompare{{\a}\b}{\a\b} 1

La macro \StrRemoveBraces

\noexploregroups
\StrRemoveBraces{\a1{\b2{\c3{\d4}}}\e5}[\cmd]
\detokenize\expandafter{\cmd} \a 1\b 2{\c 3{\d 4}}\e 5
\exploregroups
\StrRemoveBraces{\a1{\b2{\c3{\d4}}}\e5}[\cmd]
\detokenize\expandafter{\cmd} \a 1\b 2\c 3\d 4\e 5