SoftanzaLib – Design Paper

REPLACING **SUB**STRINGS *INSIDE* A LIST OF STRINGS

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| --- | --- | --- | --- | --- | --- | --- |
| BY ↓  REPLACE → | All Occurrences of SubString(s) | | SubString(s) At Position(s) *(CROSS-STRINGS)* | | Some Occurrence(s) of SubString(s)*(CROSS-STRINGS)* | |
| ONE | MANY | **One** SubStr @**One** Pos | **One** SubStr @**Many** Pos | **One Occurrence** | **Many Occurrences** |
| **One**SubStr | 1 | 4 | 7 | 10 | 19 | 20 |
| **Many**SubStrs | 23+ | 5+6 | 8+9 | 11+12 | - | 21+22 |
|  |  |  | SubString(s) ***IN STRINGS***  At Position(s) | | SubString Occurrence(s) ***IN STRINGS*** At Position(s) | |
|  | **One**SubStr | | 13 | 16 | 23 | 24 |
|  | **Many**SubStrs | | 14+15 | 17+18 | - | 25+26 |

|  |  |  |
| --- | --- | --- |
| Next Occurrences 27-34 | Previous Occurrences 35-42 | Dynamic & Conditional replacement |

A. REPLACING ALL OCCURRENCES OF SUBSTRINGS

1. ReplaceSubString(pcSubStr, pcNewSubStr )
2. ReplaceSubString**ByMany**(pcSubStr, pacNewSubStrings)
3. ReplaceSubString**ByManyXT**(pcSubStr, pacNewSubStrings)
4. ReplaceSubString**s**(pacSubStrings, pcNewSubStr / @)
5. ReplaceSubString**sByMany**(pacSubStrings, pacNewSubStrings)
6. ReplaceSubString**sByManyXT**(pacSubStrings, pacNewSubStrings)

B. REPLACING SUBSTRINGS AT POSITIONS *(CROSS-STRINGS)*

1. ReplaceSubStringAtPosition(n, pcNewSubStr / @)
2. ReplaceSubStringAtPositionN**ByMany**(n, pacNewSubStrings)
3. ReplaceSubStringAtPositionN**ByManyXT**(n, pacNewSubStrings)
4. ReplaceSubStringAtManyPositions(panPositions, pcNewSubStr / @)
5. ReplaceSubStringAtManyPositions**ByMany**(panPositions, pacNewSubStrings)
6. ReplaceSubStringAtManyPositions**ByManyXT**(panPositions, pacNewSubStrings)

C. REPLACING SUBSTRINGS *IN STRINGS*-AT-POSITIONS

1. ReplaceSubString**InStringAt**Position(n, pcNewSubStr / @)
2. ReplaceSubString**InStringAt**PositionN**ByMany**(n, pacNewSubStrings)
3. ReplaceSubString**InStringAt**PositionN**ByManyXT**(n, pacNewSubStrings)
4. ReplaceSubString**InStringAt**ManyPositions(panPositions, pcNewSubStr / @)
5. ReplaceSubString**InStringAt**ManyPositions**ByMany**(panPositions, pacNewSubStrings)
6. ReplaceSubString**InStringAt**ManyPositions**ByManyXT**(panPositions, pacNewSubStrings)

D. REPLACING OCCURRENCES OF SUBSTRINGS (*CROSS-STRINGS*)

1. ReplaceNthOccurrence (n, pcSubStr, pcNewSubStr / @)
2. ReplaceTheseOccurrences (panOccurrences, pcSubStr, pcNewSubStr / @)
3. ReplaceTheseOccurrences**ByMany**(panOccurrences, pcSubStr, pacNewSubStrings)
4. ReplaceTheseOccurrences**ByManyXT**(panOccurrences, pcSubStr, pacNewSubStrings)

E. REPLACING OCCURRENCES OF SUBSTRINGS IN STRING(S) AT POSITION(S)

1. ReplaceNthOccurrence**InStringN** (n, pcSubStr, pcNewSubStr / @)
2. ReplaceTheseOccurrences**InStringN** (panOccurrences, n, pcSubStr, pcNewSubStr / @)
3. ReplaceTheseOccurrences**InStringNByMany**(panOccurrences, pcSubStr, pacNewSubStrings)
4. ReplaceTheseOccurrences**InStringNByManyXT**(panOccurrences, pcSubStr, pacNewSubStrings)

F. REPLACING **NEXT** OCCURRENCES STARTING AT A GIVEN PSOTION OR OCCURRENCE

1. ReplaceNextOccurrence(pnStartingAt / pnStartingAtOccurrence, pcSubStr, pcNewSubStr / @)
2. ReplaceNext**Nth**Occurrence (n, pcSubStr, pcNewSubStr / @)
3. ReplaceNext**N**Occurrence**s**(n, pcSubStr, pcNewSubStr / @)
4. ReplaceNext**N**Occurrence**sByMany**(n, pcSubStr, pacNewSubSt )
5. ReplaceNext**N**Occurrence**sByManyXT**(n, pcSubStr, pacNewSubSt r)
6. ReplaceNextOccurrence**s**(panOccurrences, pcSubStr, pcNewSubStr / @)
7. ReplaceNextOccurrence**sByMany**(panOccurrences, pcSubStr, pacNewSubStr )
8. ReplaceNextOccurrence**sByManyXT**(panOccurrences, pcSubStr, pacNewSubStr )

G. REPLACING **PREVIOUS** OCCURRENCES STARTING AT A GIVEN PSOTION OR OCCURRENCE

1. ReplacePreviousOccurrence( pnStartingAt / pnStartingAtOccurrence, pcNewSubStr / @)
2. ReplacePrevious**Nth**Occurrence (n, pcSubStr, pcNewSubStr / @)
3. ReplacePrevious**N**Occurrence**s**(n, pcSubStr, pcNewSubStr / @)
4. ReplacePrevious**N**Occurrence**sByMany**(n, pcSubStr, pacNewSubSt )
5. ReplacePrevious**N**Occurrence**sByManyXT**(n, pcSubStr, pacNewSubStr )
6. ReplacePreviousOccurrence**s**(panOccurrences, pcSubStr, pcNewSubStr / @)
7. ReplacePreviousOccurrence**sByMany**(panOccurrences, pcSubStr, pacNewSubStr )
8. ReplacePreviousOccurrence**sByManyXT**(panOccurrences, pcSubStr, pacNewSubStr )

H. REPLACING SUBSRRINGS WITH A DYNAMIC VALUE

1. All the functions above containing a replacement with one substring, will provide a dynamic form :With@

I. CONDITIONAL REPLACEMENT OF SUBSTRINGS

1. ReplaceSubStringW(pcSubStr, pcWhere)

List of keywords:

* @SubString
* @SubStrings
* @NewSubString
* @NewSubStrings
* @SubStringPosition
* @SubStringPositions
* @StringPosition
* @StringPositions
* @Occurrence
* @Occurrences
* @OccurrenceInString
* @OccurrencesInString
* @NumberOfOccurrences
* @NumberOfOccurrencesInString