strspn, wcsspn, \_mbsspn

Returns the index of the first character in a string that does not belong to a set of characters.

size\_t strspn(const char \*string,const char \*strCharSet );

size\_t wcsspn(const wchar\_t \*string,const wchar\_t \*strCharSet );

size\_t \_mbsspn(const unsigned char \*string,const unsigned char \*strCharSet );

**Parameters**

*string*

Null-terminated string to search.

*strCharSet*

Null-terminated character set.

**Return Value**

Returns an integer value specifying the length of the substring in *string* that consists entirely of characters in *strCharSet.* If *string*begins with a character not in *strCharSet,* the function returns 0. No return value is reserved to indicate an error.

**Remarks**

The **strspn** function returns the index of the first character in *string* that does not belong to the set of characters in *strCharSet*. The search does not include terminating null characters.

**wcsspn** and **\_mbsspn** are wide-character and multibyte-character versions of **strspn.** The arguments of **wcsspn** are wide-character strings; those of **\_mbsspn** are multibyte-character strings. These three functions behave identically otherwise.

**Generic-Text Routine Mappings**

|  |  |  |  |
| --- | --- | --- | --- |
| **TCHAR.H routine** | **\_UNICODE & \_MBCS not defined** | **\_MBCS defined** | **\_UNICODE defined** |
| **\_tcsspn** | **strspn** | **\_mbsspn** | **wcsspn** |

**Requirements**

|  |  |  |
| --- | --- | --- |
| **Routine** | **Required header** | **Compatibility** |
| **strspn** | <string.h> | ANSI, Win 98, Win Me, Win NT, Win 2000, Win XP |
| **wcsspn** | <string.h> or <wchar.h> | ANSI, Win 98, Win Me, Win NT, Win 2000, Win XP |
| **\_mbsspn** | <mbstring.h> | Win 98, Win Me, Win NT, Win 2000, Win XP |

For additional compatibility information, see [Compatibility](http://msdn.microsoft.com/en-us/library/sk54f3f5(v=vs.71).aspx) in the Introduction.

**Libraries**

All versions of the [C run-time libraries](http://msdn.microsoft.com/en-us/library/abx4dbyh(v=vs.71).aspx).

**Example**

// crt\_strspn.c

/\* This program uses strspn to determine

\* the length of the segment in the string "cabbage"

\* consisting of a's, b's, and c's. In other words,

\* it finds the first non-abc letter.

\*/

#include <string.h>

#include <stdio.h>

int main( void )

{

char string[] = "cabbage";

int result;

result = strspn( string, "abc" );

printf( "The portion of '%s' containing only a, b, or c "

"is %d bytes long\n", string, result );

}

**/\***

**Output**

The portion of 'cabbage' containing only a, b, or c is 5 bytes long

\*/