

std::strcspn

Defined in header <cstring>

```
std::size_t strcspn( const char *dest, const char *src );
```

Returns the length of the maximum initial segment of the byte string pointed to by `dest`, that consists of only the characters *not* found in byte string pointed to by `src`.

The function name stands for "complementary span".

Parameters

dest - pointer to the null-terminated byte string to be analyzed

src - pointer to the null-terminated byte string that contains the characters to search for

Return value

The length of the maximum initial segment that contains only characters not found in the byte string pointed to by `src`.

Example

Run this code

```
#include <cstdint>
#include <cstring>
#include <iomanip>
#include <iostream>
#include <string>

int main()
{
    std::string s = "abcde312$#@";
    const char* invalid = "$#@";

    const std::size_t valid_len = std::strcspn(s.c_str(), invalid);
    if (valid_len != s.size())
    {
        std::cout << std::quoted(s)
                  << " contains invalid chars starting at position "
                  << valid_len << '\n'
                  << std::string(valid_len + 1, '-') << "^\n";
    }
}
```

Output:

```
"abcde312$#@" contains invalid chars starting at position 8
-----^
```

See also

| | |
|----------------------|--|
| strspn | returns the length of the maximum initial segment that consists of only the characters found in another byte string (function) |
| wcscspn | returns the length of the maximum initial segment that consists of only the wide <i>not</i> found in another wide string (function) |
| strpbrk | finds the first location of any character from a set of separators (function) |
| find_first_of | find first occurrence of characters (public member function of <code>std::basic_string<CharT,Traits,Allocator></code>) |

C documentation for strcspn

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