Introduction

The string view class builds itself on the string class. It restricts the operations that can be performed on a string.

A string view is a non-owning reference to a string. It represents a view of a sequence of characters. This sequence of characters can be a C++ string or a C-string. A string view needs the header <string_view>.

A string view is a for copying optimized string

From a birds-eye perspective the purpose of std::string_view is to avoid copying data which is already owned by someone else and to allow immutable access to a std::string like object. The string view is a kind of a restricted string that supports only the immutable operations.
Additionally, a string view sv.remove_prefix and sv.remove_suffix.

String views are class templates parameterized by their character and their character trait. The character trait has a default. In contrast to a string, a string view is non-owner and, therefore, needs no allocator.

```
template < class CharT, class Traits = std::char_traits<CharT> >
   class basic_string_view;
```

According to strings, there exist for string views four synonyms for the underlying character types char16_t and char32_t.

```
typedef std::string_view std::basic_string_view<char>
typedef std::wstring_view std::basic_string_view<wchar_t>
typedef std::u16string_view std::basic_string_view<char16_t>
typedef std::u32string_view std::basic_string_view<char32_t>
```

i std::string_view is the string view

If we speak in C++ about a string view, we refer with 99% probability to

the specialization std::basic_string_view for the character type char.
This statement is also true for this book.