Module std::string

The string module defines the String type which represents UTF8 encoded strings.

A String holds a sequence of bytes which is guaranteed to be in utf8 format.

An invalid UTF8 encoding.

Index out of range.

Creates a new string from a sequence of bytes. Aborts if the bytes do not represent valid utf8.

Convert an ASCII string to a UTF8 string

Convert an UTF8 string to an ASCII string. Aborts if s is not valid ASCII

Tries to create a new string from a sequence of bytes.

Returns a reference to the underlying byte vector.

Unpack the string to get its underlying bytes.

Checks whether this string is empty.

Returns the length of this string, in bytes.

Appends a string.

Appends bytes which must be in valid utf8 format.

Insert the other string at the byte index in given string. The index must be at a valid utf8 char boundary.

Returns a sub-string using the given byte indices, where i is the first byte position and j is the start of the first byte not included (or the length of the string). The indices must be at valid utf8 char boundaries, guaranteeing that the result is valid utf8.

Computes the index of the first occurrence of a string. Returns s. length () if no occurrence found.

Struct

```bash

A String holds a sequence of bytes which is guaranteed to be in utf8 format.

"bash
"hash

| Convert an ASCII string to a UTF8 string                                  |
|---------------------------------------------------------------------------|
| ```bash                                                                   |
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| ```bash                                                                   |
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| Convert an UTF8 string to an ASCII string. Aborts if s is not valid ASCII |
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| ```bash                                                                   |
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| Tries to create a new string from a sequence of bytes.                    |
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| Returns a reference to the underlying byte vector.                        |
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| ```bash                                                                   |
| ***                                                                       |
| Unpack the string to get its underlying bytes.                            |
| ```bash                                                                   |
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| ```bash                                                                   |
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| Checks whether this string is empty.                                      |
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| Returns the length of this string, in bytes.                              |
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| Appends a string.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ```bash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Appends bytes which must be in valid utf8 format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ```bash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Insert the other string at the byte index in given string. The index must be at a valid utf8 char boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Creates a new string from a sequence of bytes. Aborts if the bytes do not represent valid utf8.                                                                                                                                                                                                                               |
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| Convert an ASCII string to a UTF8 string                                                                                                                                                                                                                                                                                      |
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| ```bash                                                                                                                                                                                                                                                                                                                       |
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| Convert an UTF8 string to an ASCII string. Aborts if s is |
| ```bash                                                   |
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not valid ASCII

Tries to create a new string from a sequence of bytes.

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Returns a reference to the underlying byte vector.

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Unpack the string to get its underlying bytes.

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Checks whether this string is empty.

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Returns the length of this string, in bytes.
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```bash

Appends a string.
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```bash
Appends bytes which must be in valid utf8 format.
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Insert the other string at the byte index in given string. The index must be at a valid utf8 char boundary.
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# **Function**

Tries to create a new string from a sequence of bytes.
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# **Function**

Returns a sub-string using the given byte indices, where i is the first byte position and j is the start of the first byte not included (or the length of the string). The indices must be at valid utf8 char boundaries, guaranteeing that the result is valid utf8.

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Computes the index of the first occurrence of a string. Returns s. length () if no occurrence found.

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Function

Computes the index of the first occurrence of a string. Returns s. $\underline{\text{length}}$ () if no occurrence found.

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