

Module std::ascii

The ASCII module defines basic string and char newtypes in Move that verify that characters are valid ASCII, and that strings consist of only valid ASCII characters.

The [String](#) struct holds a vector of bytes that all represent valid ASCII characters. Note that these ASCII characters may not all be printable. To determine if a [String](#) contains only "printable" characters you should use the [all_characters_printable](#) predicate defined in this module.

An ASCII character.

An invalid ASCII character was encountered when creating an ASCII string.

An invalid index was encountered when creating a substring.

Convert a [byte](#) into a [Char](#) that is checked to make sure it is valid ASCII.

Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

Push a [Char](#) to the end of the [string](#) .

Pop a [Char](#) from the end of the [string](#) .

Returns the length of the [string](#) in bytes.

Append the other string to the end of [string](#) .

Insert the other string at the at index of [string](#) .

Copy the slice of the [string](#) from i to j into a new [String](#) .

Get the inner bytes of the [string](#) as a reference

Unpack the [string](#) to get its backing bytes

Unpack the [char](#) into its underlying bytes.

Returns true if b is a valid ASCII character. Returns false otherwise.

Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

Returns true if [string](#) is empty.

Convert a [string](#) to its uppercase equivalent.

Convert a [string](#) to its lowercase equivalent.

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

Convert a [char](#) to its lowercase equivalent.

Convert a [char](#) to its lowercase equivalent.

Struct

The [String](#) struct holds a vector of bytes that all represent valid ASCII characters. Note that these ASCII characters may not all be printable. To determine if a [String](#) contains only "printable" characters you should use the [all_characters_printable](#) predicate defined in this module.

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An ASCII character.

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An invalid ASCII character was encountered when creating an ASCII string.

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An invalid index was encountered when creating a substring.

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Convert a [byte](#) into a [Char](#) that is checked to make sure it is valid ASCII.

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Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

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Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

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Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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Struct

An ASCII character.

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An invalid ASCII character was encountered when creating an ASCII string.

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An invalid index was encountered when creating a substring.

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Convert a [byte](#) into a [Char](#) that is checked to make sure it is valid ASCII.

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Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

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Convert a vector of bytes `bytes` into an [String](#) . Returns `Some()` if the bytes contains all valid ASCII characters. Otherwise returns `None`.

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Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#).

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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```

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found.
Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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Constants

An invalid ASCII character was encountered when creating an ASCII string.

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An invalid index was encountered when creating a substring.

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Convert a [byte](#) into a [Char](#) that is checked to make sure it is valid ASCII.

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Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

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```

Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

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```

Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if `b` is a valid ASCII character. Returns false otherwise.

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Returns true if `byte` is a printable ASCII character. Returns false otherwise.

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Returns true if `string` is empty.

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Convert a `string` to its uppercase equivalent.

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Convert a `string` to its lowercase equivalent.

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```

Computes the index of the first occurrence of the `substr` in the `string`. Returns the length of the `string` if the `substr` is not found. Returns 0 if the `substr` is empty.

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Convert a `char` to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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## Function

Convert a [byte](#) into a [Char](#) that is checked to make sure it is valid ASCII.

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```

Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

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```

Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

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Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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```

Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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```

Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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'''

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found.

Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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Function

Convert a vector of bytes bytes into an [String](#) . Aborts if bytes contains non-ASCII characters.

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```

Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

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```

Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes



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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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```

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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```

## Function

Convert a vector of bytes bytes into an [String](#) . Returns Some() if the bytes contains all valid ASCII characters. Otherwise returns None.

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```

Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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```

Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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```

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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## Function

Returns true if all characters in [string](#) are printable characters Returns false otherwise. Not all [String](#) s are printable strings.

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Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#).

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```

Copy the slice of the [string](#) from i to j into a new [String](#).

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Get the inner bytes of the [string](#) as a reference

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Unpack the [string](#) to get its backing bytes

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Unpack the [char](#) into its underlying bytes.

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Returns true if b is a valid ASCII character. Returns false otherwise.

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Returns true if [byte](#) is a printable ASCII character. Returns false otherwise.

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Returns true if [string](#) is empty.

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Convert a [string](#) to its uppercase equivalent.

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Convert a [string](#) to its lowercase equivalent.

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Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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## Function

Push a [Char](#) to the end of the [string](#) .

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Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Get the inner bytes of the [string](#) as a reference



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Unpack the [string](#) to get its backing bytes

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Convert a [char](#) to its lowercase equivalent.

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## Function

Pop a [Char](#) from the end of the [string](#) .

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Returns the length of the [string](#) in bytes.

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Append the other string to the end of [string](#) .

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Convert a `string` to its uppercase equivalent.

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Computes the index of the first occurrence of the `substr` in the `string`. Returns the length of the `string` if the `substr` is not found. Returns 0 if the `substr` is empty.

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Convert a [char](#) to its lowercase equivalent.

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Convert a [char](#) to its lowercase equivalent.

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## Function

Append the other string to the end of [string](#) .

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Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Unpack the [string](#) to get its backing bytes

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## Function

Insert the other string at the at index of [string](#) .

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Copy the slice of the [string](#) from i to j into a new [String](#) .

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Function

Copy the slice of the [string](#) from i to j into a new [String](#).

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Get the inner bytes of the [string](#) as a reference

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Function

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Function

Convert a [string](#) to its uppercase equivalent.

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```bash
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```bash
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```

Convert a [string](#) to its lowercase equivalent.

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```bash
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```

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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```bash
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```bash
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```

Convert a [char](#) to its lowercase equivalent.

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```bash
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```bash
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```

Convert a [char](#) to its lowercase equivalent.

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```bash
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```

Function

Convert a [string](#) to its lowercase equivalent.

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```bash
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```bash
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'''
```

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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'''bash
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'''bash
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```

Convert a [char](#) to its lowercase equivalent.

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'''bash
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'''bash
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```

Convert a [char](#) to its lowercase equivalent.

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'''bash
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'''bash
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```

## Function

Computes the index of the first occurrence of the substr in the [string](#) . Returns the length of the [string](#) if the substr is not found. Returns 0 if the substr is empty.

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'''bash
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'''bash
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```

Convert a [char](#) to its lowercase equivalent.

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'''bash
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Convert a [char](#) to its lowercase equivalent.

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'''bash
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## Function

Convert a [char](#) to its lowercase equivalent.

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'''bash
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Convert a [char](#) to its lowercase equivalent.

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'''bash
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## Function

Convert a [char](#) to its lowercase equivalent.

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'''bash
```

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'''
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