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Reference

<string>

string

getline

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}

function

std::getline (string)

<string>

C++98

C++11

(1) istream& getline (istream& is, string& str, char delim);

(2) istream& getline (istream& is, string& str);

Get line from stream into string

Extracts characters from *is* and stores them into *str* until the delimitation character *delim* is found (or the newline character, '\n', for (2)).

The extraction also stops if the end of file is reached in *is* or if some other error occurs during the input operation.

If the delimiter is found, it is extracted and discarded (i.e. it is not stored and the next input operation will begin after it).

Note that any content in *str* before the call is replaced by the newly extracted sequence.

Each extracted character is appended to the [string](#) as if its member [push_back](#) was called.

Parameters

is

istream object from which characters are extracted.

str

string object where the extracted line is stored.

The contents in the string before the call (if any) are discarded and replaced by the extracted line.

Return Value

The same as parameter *is*.

A call to this function may set any of the internal state flags of *is* if:

flag	error
eofbit	The end of the source of characters is reached during its operations.
failbit	The input obtained could not be interpreted as a valid textual representation of an object of this type. In this case, <i>distr</i> preserves the parameters and internal data it had before the call. Notice that some eofbit cases will also set failbit.
badbit	An error other than the above happened.

(see [ios_base::iostate](#) for more info on these)

Additionally, in any of these cases, if the appropriate flag has been set with *is*'s member function [ios::exceptions](#), an exception of type [ios_base::failure](#) is thrown.

Example

```
1 // extract to string
2 #include <iostream>
3 #include <string>
4
5 int main ()
6 {
7     std::string name;
8
9     std::cout << "Please, enter your full name: ";
10    std::getline (std::cin,name);
11    std::cout << "Hello, " << name << "!\n";
12
13    return 0;
14 }
```

Complexity

Unspecified, but generally linear in the resulting [length](#) of *str*.

Iterator validity

Any iterators, pointers and references related to *str* may be invalidated.

http://www.cplusplus.com/reference/string/string/getline/

1/2

string::crend

string::c_str

string::data

string::empty

string::end

string::erase

string::find

string::find_first_not_of

string::find_first_of

string::find_last_not_of

string::find_last_of

string::front

string::get_allocator

string::insert

string::length

string::max_size

string::operator+=

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string::pop_back

string::push_back

string::rbegin

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string::replace

string::reserve

string::resize

string::rfind

string::shrink_to_fit

string::size

string::substr

string::swap

member constants:

string::npos

non-member overloads:

getline (string)

operator+ (string)

operator<< (string)

operator>> (string)

relational operators (string)

swap (string)

Data races


Both objects, *is* and *str*, are modified.

Exception safety

Basic guarantee: if an exception is thrown, both *is* and *str* end up in a valid state.

See also

istream::getline	Get line (public member function)
operator>> (string)	Extract string from stream (function)

OrientDB

Graph/Document Database

