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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. |
| (: | hanny in the harmonia in the case the case |

(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>
 5 int main ()
 6 {
     std::string name;
                                                           Edit & Run
 9
     std::cout << "Please, enter your full name: ";</pre>
10
     std::getline (std::cin,name);
11
     std::cout << "Hello, " << name << "!\n";</pre>
12
13
     return 0;
14 }
```

Complexity

Unspecified, but generally linear in the resulting length of str.

Iterator validity

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+= string::operator= string::operator[] string::pop_back string::push_back string::rbegin string::rend 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)

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

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) |

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