

The first signature returns the character read, or the end-of-file value (EOF) if no characters are available in the stream

All other signatures always return \*this. Note that this return value can be checked for the state of the stream (see

http://www.cplusplus.com/reference/istream/jstream/get/

Return Value

(note that in this case, the failbit flag is also set).

casting a stream to bool for more info).

Errors are signaled by modifying the internal state flags:

flag	error	
eofbit	The function stopped extracting characters because the input sequence has no more characters available (end-of-file reached).	
failbit	t Either no characters were written or an empty c-string was stored in s.	
badbit	Error on stream (such as when this function catches an exception thrown by an internal operation). When set, the integrity of the stream may have been affected.	

Multiple flags may be set by a single operation.

If the operation sets an *internal state flag* that was registered with member exceptions, the function throws an exception of member type failure.

## Example

```
1 // istream::get example
                                                                     603
  #include <iostream>
                            // std::cin, std::cout
 3 #include <fstream>
                            // std::ifstream
 5 int main () {
    char str[256];
    std::cout << "Enter the name of an existing text file: ";</pre>
    std::cin.get (str,256);
                                 // get c-string
10
11
     std::ifstream is(str);
                                 // open file
12
13
14
    while (is.get(c))
                                 // loop getting single characters
15
       std::cout << c;</pre>
16
17
                                 // close file
    is.close();
18
19
     return 0;
20 }
```

This example prompts for the name of an existing text file and prints its content on the screen, using cin.get both to get individual characters and c-strings.

## Data races

Modifies c, sb or the elements in the array pointed by s.

Modifies the stream object.

Concurrent access to the same stream object may cause data races, except for the standard stream object cin when this is *synchronized with stdio* (in this case, no data races are initiated, although no guarantees are given on the order in which extracted characters are attributed to threads).

## Exception safety

Basic guarantee: if an exception is thrown, the object is in a valid state.

It throws an exception of member type failure if the resulting *error state flag* is not goodbit and member exceptions was set to throw for that state.

Any exception thrown by an internal operation is caught and handled by the function, setting badbit. If badbit was set on the last call to exceptions, the function rethrows the caught exception.



1 000 000		
istream::getline	Get line (public member function )	
istream::ignore	Extract and discard characters (public member function )	
istream::gcount	Get character count (public member function )	

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