Search: [   ] Go

Not logged in

register   log in

C++
Information
Tutorials
Reference
Articles
Forum

Reference
⊞ C library:
⊞ Containers:
⊟ Input/Output:
   <fstream>
   <iomanip>
   <ios>
   <iosfwd>
   <iostream>
   <istream>
   <ostream>
   <sstream>
   <streambuf>
⊞ Multi-threading:
⊞ Other:

<sstream>
⊟ class templates:
   basic_istringstream
   basic_ostringstream
   basic_stringbuf
   basic_stringstream
⊟ classes:
   istringstream
   ostringstream
   stringbuf
   stringstream
   wistringstream
   wostringstream
   wstringbuf
   wstringstream

stringbuf
stringbuf::stringbuf
⊟ public members:
   stringbuf::str
⊟ virtual members:
   stringbuf::overflow
   stringbuf::pbackfail
   stringbuf::seekoff
   stringbuf::seekpos
   stringbuf::setbuf
   stringbuf::underflow

protected virtual member function   <sstream>
std::**stringbuf::pbackfail**

```
int pbackfail (int c = EOF);
```

Put character back

Moves back the *get pointer*(gptr) one position to point to the previous character, and if the stringbuf object was constructed with ios_base::out, it stores *c* at that position.

If the stringbuf object was not constructed with ios_base::out, *c* shall either match the character at the putback position or EOF. Otherwise, the function fails.

If the *get pointer* is already at the beginning of the character sequence before the call, the function also fails.

On failure, the function returns EOF without altering the *get pointer* (gptr).

This virtual function is called by public member functions of streambuf such as sungetc and sputbackc when there are no putback positions available at the *get pointer* (gptr), or when the character being put back does not match the one in the buffer.

🔺 Parameters

c
    Character to be put back, or EOF to keep the value of the character at the putback position.

🔄 Return Value
On success, traits_type::not_eof(c).
The function returns EOF on failure.

⬤ Data races
Modifies the stringbuf object.
Concurrent access to the same object may cause data races.

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

🔱 See also

stringbuf::underflow	Get character (protected virtual member function)
streambuf::pbackfail	Put character back in the case of backup underflow (protected virtual member function)