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Reference

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C++ Fail

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protected virtual member function

std::filebuf::pbackfail
<fstream>

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

Put character back on backup underflow

Moves the current input position on position back to point to the previous character and, if supported, makes *c* available as that next character to be read.

If the implementation does not support writing to putback positions, *c* shall either match the character at the putback position or be the *end-of-file* value (*EOF*). Otherwise, the function fails.

If the *get pointer* (*gptr*) is at the beginning of the character sequence before the call, the function may either fail or make additional putback positions available and succeed, depending on the library implementation.

In no case the contents of the associated file are modified by the function.

On failure, the function returns the *end-of-file* value (*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.

This member function overrides the inherited virtual member *streambuf::pbackfail*.

Parameters

c

Character to be put back, or the *end-of-file* value (*EOF*) to keep the value of the character at the putback position.

Return Value

On success, *traits_type::not_eof(c)*.
The function returns the *end-of-file* value (*EOF*) on failure.

Data races

Modifies the *filebuf* object.
Concurrent access to the same *file stream buffer* object may introduce data races.

Exception safety

Basic guarantee: if an exception is thrown, the *file stream buffer* is in a valid state.

See also

filebuf::underflow

Get character on underflow (protected virtual member function)

streambuf::pbackfail

Put character back in the case of backup underflow (protected virtual member function)

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