

These flags can be combined with the bitwise OR operator (|).

* in is always set for ifstream objects (even if explicitly not set in argument mode).

Note that even though ifstream is an input stream, its internal filebuf object may be set to also support output operations.

C++98 C++11 🔞

If the mode has app set, the opening operation fails. It also fails if trunc is set but out is not.

Return Value

(++II

C++II

If the function fails to open a file, the failbit state flag is set for the stream (which may throw ios base::failure if that state flag was registered using member exceptions).

Example

```
1 // print the content of a text file.
                                                £03
  #include <iostream>
                           // std::cout
  #include <fstream>
                           // std::ifstream
  int main () {
    std::ifstream ifs;
    ifs.open ("test.txt", std::ifstream::in);
10
    char c = ifs.get();
12
     while (ifs.good()) {
13
      std::cout << c;
14
      c = ifs.get();
```

ifstream::operator=

non-member overloads: swap (ifstream)

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• 0

ifstream::rdbuf

ifstream::swap

Developers

Not loaged in

<fstream>

log in

```
16
17
18
19
      ifs.close();
      return 0;
20 }
```

Data races

Modifies the ifstream object.

Concurrent access to the same stream object introduce data races.

Exception safety

Basic guarantee: if an exception is thrown, the *stream* is in a valid state. It throws an exception of member type failure if the function fails (setting the failbit state flag) and member exceptions was set to throw for that state.

🚖 See also

ifstream::is_open	Check if a file is open (public member function)
ifstream::close	Close file (public member function)
filebuf::open	Open file (public member function)

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