

```
if (is) {
       // get length of file:
       is.seekg (0, is.end);
10
       int length = is.tellg();
11
       is.seekg (0, is.beg);
12
13
       // allocate memory:
14
       char * buffer = new char [length];
15
16
       // read data as a block:
17
       is.read (buffer,length);
18
19
       is.close();
21
       // print content:
       std::cout.write (buffer,length);
23
24
       delete[] buffer;
25
     return 0;
28 }
```

In this example, tellg is used to get the position in the stream after it has been moved with seekg to the end of the stream, therefore determining the size of the file.

Data races

C++I

C++II

istream::sync

istream::tellg

istream::unget

non-member overloads:

operator>> (istream)

protected members:

istream::operator=

istream::swap

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<istream> <iostream>

Modifies the stream object.

Concurrent access to the same stream object may cause data races.

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.

∳ See also

istream::seekg	Set position in input sequence (public member function)
ostream::tellp	Get position in output sequence (public member function)

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