

```
1 // istream::peek example
                                                                  603
                            // std::cin, std::cout
  #include <iostream>
  #include <string>
                             // std::string
                            // std::isdigit
  #include <cctype>
 6 int main () {
     std::cout << "Please, enter a number or a word: ";</pre>
     std::cout.flush();
                            // ensure output is written
10
11
     std::cin >> std::ws; // eat up any leading white spaces
12
     int c = std::cin.peek(); // peek character
13
14
     if ( c == EOF ) return 1;
     if ( std::isdigit(c) )
16
     {
17
      int n;
      std::cin >> n;
std::cout << "You entered the number: " << n << '\n';
18
19
20
21
     else
23
      std::string str;
24
      std::cin >> str;
25
      std::cout << "You entered the word: " << str << '\n';</pre>
26
27
28
     return 0;
29 }
```

Possible output:

Please, enter a number or a word: foobar

C++I

C++II

istream::read

istream::seekg istream::sync

istream::tellq istream::unget

istream::readsome

non-member overloads:

operator>> (istream)

protected members:

istream::operator=

istream::swap

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<istream> <iostream>

You entered the word: foobar

Data races

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 read 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.

🚖 See also

 istream::get
 Get characters (public member function)

 istream::operator>>
 Extract formatted input (public member function)

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