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/* The following code example is taken from the book
* "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
* by Nicolai M. Josuttis, Addison-Wesley, 2012
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#include <iostream>
template <typename charT, typename traits>
inline
std::basic_istream<charT, traits>&
operator >> (std::basic istream<charT, traits>& strm, Fraction& f)
    int n, d;
    // read value of numerator
    strm >> n;
    // if available
    // - read '/' and value of demonimator
    if (strm. peek() == '/') {
        strm.ignore();
        strm >> d;
    else {
       d = 1;
    // if denominator is zero
    // - set failbit as I/O format error
    if (d == 0) {
        strm. setstate(std::ios::failbit);
        return strm;
    // if everything is fine so far
    // - change the value of the fraction
    if (strm) {
        f = Fraction(n, d);
    return strm:
```