```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 */
#include <streambuf>
#include <locale>
#include <cstdio>
template <class charT, class traits = std::char traits<charT> >
class basic outbuf : public std::basic streambuf<charT, traits>
  protected:
    /* central output function
     * - print characters in uppercase mode
    virtual typename traits::int_type
             overflow (typename traits::int_type c) {
        if (!traits::eq int type(c, traits::eof())) {
             // convert lowercase to uppercase
             c = std::toupper(c, getloc());
             // and write the character to the standard output
             if (putchar(c) == EOF)
                 return traits::eof();
        return traits::not eof(c);
    }
};
typedef basic outbuf < char>
                                outbuf;
typedef basic outbuf < wchar t > woutbuf;
```