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// DocToHtml.cpp - CONVERT DOCUMENT FILES TO HTML
//
// MAINTENANCE HISTORY
// DATE          PROGRAMMER AND DETAILS
// 23-09-13      JS          Original
// 30-09-13      HYC          Correctly set outMode for `\\N'
//
//-----

#include <cstdlib>           // C-style standard library
#include <iostream>         // C++ I/O stream declarations
using namespace std;       // Expand the standard namespace

//-----

// OUTPUT MODE ENUMERATOR

enum OutMode_t {
    NORMAL,                // Normal mode
    BOLD,                  // Bold mode
    ITALIC                 // Italic mode
};

//-----

// MAIN LINE

int
main ()
{
    int          c;          // Received character
    OutMode_t    outMode;   // Output mode

    // Emit the HTML header

    cout << "<!DOCTYPE HTML PUBLIC \"-//IETF//DTD HTML 3.0//EN\">\n";
    cout << "<html>\n";
    cout << "<body>\n";
    cout << "<pre>";

    // Translate the input stream

    c = cin.get();
    outMode = NORMAL;
    while (c != istream::traits_type::eof()) {
        if (c == '\\') {
            c = cin.get();
            if (c == 'B') {
                switch (outMode) {
                    case ITALIC:
                        cout << "</i>";
                        // FALLTHROUGH
                    case NORMAL:
                        cout << "<b>";
                        outMode = BOLD;
                        break;
                    case BOLD:
                        break;
                    default:
                        cerr << "Error: strange outMode\n";
                }
            }
        }
    }
}

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        exit (1);
    }
}
else if (c == 'I') {
    switch (outMode) {
    case BOLD:
        cout << "</b>";
        // FALLTHROUGH
    case NORMAL:
        cout << "<i>";
        outMode = ITALIC;
        break;
    case ITALIC:
        break;
    default:
        cerr << "Error: strange outMode\n";
        exit (1);
    }
}
else if (c == 'N') {
    switch (outMode) {
    case NORMAL:
        break;
    case BOLD:
        cout << "</b>";
        outMode = NORMAL;
        break;
    case ITALIC:
        cout << "</i>";
        outMode = NORMAL;
        break;
    default:
        cerr << "Error: strange outMode\n";
        exit (1);
    }
}
else if (c == '\\') {
    cout << '\\';
}
else {
    cout << '\\';
    if (c != istream::traits_type::eof())
        cout.put (c);
}
} else {
    cout.put (c);
}
if (c != istream::traits_type::eof())
    c = cin.get ();
}

// Emit the HTML footer

cout << "</pre>\n";
cout << "</body>\n";
cout << "</html>\n";

return 0;
}

```