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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>
#include <stack>
using namespace std;

int main()
{
    stack<int> st;

    // push three elements into the stack
    st.push(1);
    st.push(2);
    st.push(3);

    // pop and print two elements from the stack
    cout << st.top() << ' ';
    st.pop();
    cout << st.top() << ' ';
    st.pop();

    // modify top element
    st.top() = 77;

    // push two new elements
    st.push(4);
    st.push(5);

    // pop one element without processing it
    st.pop();

    // pop and print remaining elements
    while (!st.empty()) {
        cout << st.top() << ' ';
        st.pop();
    }
    cout << endl;
}

```