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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 <string>
#include <exception>
#include "Queue.hpp"      // use special queue class
using namespace std;

int main()
{
    try {
        Queue<string> q;

        // insert three elements into the queue
        q.push("These ");
        q.push("are ");
        q.push("more than ");

        // pop two elements from the queue and print their value
        cout << q.pop();
        cout << q.pop();

        // push two new elements
        q.push("four ");
        q.push("words!");

        // skip one element
        q.pop();

        // pop two elements from the queue and print their value
        cout << q.pop();
        cout << q.pop() << endl;

        // print number of remaining elements
        cout << "number of elements in the queue: " << q.size()
              << endl;

        // read and print one element
        cout << q.pop() << endl;
    }
    catch (const exception& e) {
        cerr << "EXCEPTION: " << e.what() << endl;
    }
}

```