```cpp
/* 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 <queue>
using namespace std;

int main()
{
    priority_queue<float> q;

    // insert three elements into the priority queue
    q.push(66.6);
    q.push(22.2);
    q.push(44.4);

    // read and print two elements
    cout << q.top() << ' ';
    q.pop();
    cout << q.top() << endl;
    q.pop();

    // insert three more elements
    q.push(11.1);
    q.push(55.5);
    q.push(33.3);

    // skip one element
    q.pop();

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