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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 <valarray>
using namespace std;
// print valarray
template <typename T>
void printValarray (const valarray T>& va)
    for (int i=0; i < va. size(); i++) {
        cout << va[i] << ' ';
    cout << endl;
int main()
    // define two valarrays with ten elements
    valarray (double) val(10), va2(10);
    // assign values 0.0, 1.1, up to 9.9 to the first valarray
    for (int i=0; i<10; i++) {
        va1|i| = i * 1.1;
    // assign -1 to all elements of the second valarray
    va2 = -1:
    // print both valarrays
    printValarray(val);
    printValarray(va2);
    // print minimum, maximum, and sum of the first valarray cout << "min(): " << val.min() << endl; cout << "max(): " << val.max() << endl;
    cout << "sum(): " << val. sum() << endl:
    // assign values of the first to the second valarray
    va2 = va1:
    // remove all elements of the first valarray
    val. resize(0);
    // print both valarrays again
    printValarray(val);
    printValarray(va2);
```