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//
// Bidirectional and Random-Access Iterator Use
// main.cpp
// AbsoluteCpp_ch19_2
//
//Program to demonstrate bidirectional and random-access iterators.
#include <iostream>
#include <vector>
using std::cout;
using std::endl;
using std::vector;
int main() {
    vector<char> container;
    container.push_back('A');
    container.push back('B');
    container.push back('C');
    container.push_back('D');
    for (int i = 0; i < 4; i++)
        cout << "container[" << i << "] == "
              << container[i] << endl;
    vector<char>::iterator p = container.begin();
    cout << "The third entry is " << container[2] << endl;</pre>
    cout << "The third entry is "<< p[2] << endl;</pre>
    cout << "The third entry is " << *(p+2)<< endl;</pre>
    cout << "Back to container[0].\n";</pre>
    p = container.begin( );
    cout << "which has value " << *p << endl;</pre>
    cout << "Two steps forward and one step back:\n";</pre>
    p++;
    cout << *p << endl;
    p++;
    cout << *p << endl;
    cout << *p << endl;</pre>
    return 0;
}
```