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/*This programme uses insert iterator to violate insertion rules for a vector*/

// A vector of 100 zeros has numbers inserted in its middle
#include<iostream>
#include <iterator>
#include <vector>
using namespace std;

void main() {

    vector < int >  numbers(100, 0);

    cout << "The size of the vector is " << numbers.size() << endl;

    insert_iterator<vector < int >> iterInsert{ numbers , begin(numbers) + 5 }; // iterator
pointing to the 6th element of vector numbers

    for (unsigned int i{ 0 }; i < 90; i++)
    { // insert i starting from the sixth element
        *iterInsert = i;
    }

    cout << "The size of the vector is " << numbers.size() << endl;

    for (unsigned int i{ 0 }; i < numbers.size(); i++)
    {
        cout << numbers[i];
    }

    cout << endl;

    system("pause");

};
```