C++
Information
Documentation
Reference
Articles
Forum

Reference
C library:
Containers:
Input/Output:
Other:
<algorithm>
<chrono>
<codecvt>
<complex>
<exception>
<functional>
<initializer_list>
<iterator>
<limits>
<locale>
<memory>
<new>
<numeric>
<random>
<ratio>
<regex>
<stdexcept>
<string>
<system_error>
<tuple>
<typeinfo>
<type_traits>
<utility>
<valarray>

<iterator>
advance
back_inserter
distance
front_inserter
inserter
iterator
iterator_traits
iterator categories:
Bidirectional Iterator
Forward Iterator
Input Iterator
Output Iterator
Random Access Iterator
predefined iterators:
back_insert_iterator
front_insert_iterator
insert_iterator
istreambuf_iterator
istream_iterator
ostreambuf_iterator
ostream_iterator
reverse_iterator

function template

std::back_inserter

```
template <class Container>
  back_insert_iterator<Container> back_inserter (Container& x);
```

Construct a back insert iterator

This function generates a back insert iterator for a container.

A back insert iterator is a special type of output iterator specifically designed to allow algorithms that usual elements (such as copy) to instead insert new elements at the end of the container.

Parameters

x
Container for which the back insert iterator is constructed.

Return value

A back_insert_iterator that inserts elements at the end of container *x*.

Example

```
1  // back_inserter example
2  #include <iostream>
3  #include <iterator>
4  #include <vector>
5  using namespace std;
6
7  int main () {
8    vector<int> firstvector, secondvector;
9    for (int i=1; i<=5; i++)
10   { firstvector.push_back(i); secondvector.push_back(i*10); }
11
12   copy (secondvector.begin(),secondvector.end(),back_inserter(firstvector));
13
14   vector<int>::iterator it;
15   for ( it = firstvector.begin(); it!= firstvector.end(); ++it )
16           cout << *it << " ";
17   cout << endl;
18
19   return 0;
20 }
```

Output:

```
1 2 3 4 5 10 20 30 40 50
```

See also

back_insert_iterator	Back insert iterator (class template)
front_inserter	Constructs a front insert iterator (function template)
inserter	Construct an insert iterator (function template)