Growing & Shrinking

Unlike the built-in array type, the size of a vector is not fixed; it can grow or shrink at runtime. The push_back() member function appends a new element to the end of the vector. If the vector is full, it is expanded. Here's an example:

If v is an empty vector<int>, executing the code above adds these three elements to the end of v. Afterwards, v looks like the illustration here.

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You can add additional elements at any time. Later, for example, you could call v.push_back(4); which would add the value 4 to the end of the vector, like this.

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The pop_back() member function removes the element at the end of the vector and decreases its size. If the vector is empty, calling pop_back() is undefined behavior. After calling v.pop_back() on the vector, its contents and size are back where it started.





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