

Adding Data to a Vector

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0.1 Vector push_back

Now that you are able to process a string, you may want to store the results of the processing in a convenient container for later use. In the next exercise, you will store the streamed ints from each line of the board in a `vector<int>`. To do this, you will add the ints to the back of the vector, using the vector method `push_back`:

```
In [ ]: #include <vector>
        #include <iostream>
        using std::vector;
        using std::cout;

        int main() {
            // Initial Vector
            vector v {1, 2, 3};

            // Print the contents of the vector
            for (int i=0; i < v.size(); i++) {
                cout << v[i] << "\n";
            }

            // Push 4 to the back of the vector
            v.push_back(4);

            // Print the contents again
            for (int i=0; i < v.size(); i++) {
                cout << v[i] << "\n";
            }
        }
```

Run Code

See Explanation

Loading terminal (id_gixuguc), please wait...

The 4 has been added to the end of the vector!

0.2 On to an Exercise

In this section, you have learned about two useful tools:

- String streams, and
- `vector::push_back`.

The string streaming objects in C++ are very powerful, and there are many more ways that an `istringstream` can be used. We encourage you to have a look at all of the available functions in [the C++ reference](#). However, at this point you are ready for the next exercise. In this exercise, you will parse string lines from the board and store the ints in a vector using the `istringstream` and `push_back` methods from above. Have a careful look at the examples again, and copy paste any code you think you might need before clicking the Next button below.

In []: