

Emplacement Exercises

emplace()

- What is the difference between insert() and emplace()?
- What syntax is used for emplace?
- Write a simple program which uses emplace() to add an object to a vector, then prints out the vector elements

emplace_back()

- What is the difference between `push_back()` and `emplace_back()`?
- Write a simple program which uses `emplace_back()` to add an object to a vector, then prints out the vector elements

try_emplace()

- Briefly describe C++17's `map::try_emplace()`
- Why is `map::try_emplace()` needed?

try_emplace()

- Write a program which uses the try_emplace member function to insert a new element into an std::map
- Check your program works both for inserting a new element and assigning an existing element