STL Ordered Associative Container: map

- An `std::map` associates a value with each unique key
- e.g., a student’s id number & their student record
- Its `value_type` is implemented as `pair<const Key, Data>`

```cpp
std::vector<std::string> word_list {
    "now", "is", "the", "time", "for", "all", "good", "people", "to", "come", "to", "the", "aid", "of", "their", "party"};
```

```cpp
typedef std::map<std::string, int> WORD_MAP;
WORD_MAP word_map;

for (auto const &word : word_list)
    ++word_map[word];
```