

Unordered Associative Containers Exercises

- Explain (briefly!) why unordered associative containers are more efficient than the ordered equivalents
- Which data structure is typically used to store unordered containers?
- What output would you expect to see from the code shown on the next page?
- Convert this code to a full, working program

```
#include <unordered_map>
```

```
unordered_multimap<string, int> scores;
```

```
scores.insert( {"Graham", 78} );
```

```
scores.insert( {"Grace", 66} );
```

```
scores.insert( {"Graham", 66} );
```

```
scores.insert( {"Graham", 72} );
```

```
scores.insert( {"Hareesh", 77} );
```

```
for (auto& it: scores)
```

```
    cout << it.first << " has a score of " << it.second << endl;
```

- What is unusual about iterating over unordered containers?