

Multiset and Multimap Solutions

- What is the main difference between
 - set and multiset
 - map and multimap?
 - In set and map, the keys must be unique. In multiset and multimap, duplicates are allowed
- Give one feature of map which is not supported by multimap
 - Subscripting

- Write a program that creates a multiset and populates it with the values 6, 7, 4, 6, 6
- What output what you expect to see when the elements of the set are printed?
 - 4, 6, 6, 6, 7
- Run your program and observe the output

- Write the same program, but using a set instead of a multiset. What difference does this make?
 - Duplicates are ignored
 - Only the first insertion of an element with value 6 succeeds
 - Later attempts to insert the same value fail
 - The set has only one element with the value 6

- Write a program that creates a multimap, populates it with the following values and displays the elements of the multimap

`{"Graham", 78}`

`{"Grace", 66}`

`{"Graham", 66}`

`{"Graham", 72}`

`{"Hareesh", 77}`

- Add the following code to your program

```
scores.erase("Graham");
```

- What output what you expect to see when the elements of the multimap are printed?
- Run your program and observe the output
 - All Graham's scores are erased

- Write the same program, but using a map instead of a multimap. What difference does this make?
 - Duplicates are ignored
 - Only the first insertion of an element with key “Graham” succeeds
 - Later attempts to insert the same key fail
 - The set has only one element with the key “Graham”