Multiset and Multimap Solutions

Multiset and Multimap

- 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

Multiset Example

- 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

Multimap Example

- 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}

insert() and erase()

- 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?

  - All Graham's scores are erased

- Run your program and observe the output

Finding Elements

- Using the same multimap as in the previous example, write a program which
    - Displays all the elements with key "Graham"
    - Finds an element with key "Graham" and value 66, and prints out the element's data