Definition What is a set? Well, simply put, it's a collection.

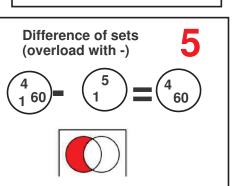
Set of prime numbers: {2, 3, 5, 7, 11, 13, 17} Positive multiples of 3 that are less than 10: {3, 6, 9}

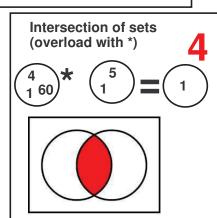
iset64

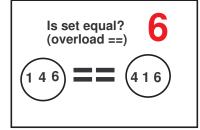
- 1. Empty set a ={ }
- 2. The set we are implementing will have numbers between 0 to 63 only
- 3. In sets it does not matter what order the elements are in Example: {1,2,3,4) is the same set as {3,1,4,2}
- 4. Number of elements in the above set = 4
- 5. In our set minimum number of element is 0 Empty set maximum number of element is 64 and the elements will be between 0 to 63

Adding an element to set $a = \{1,2\}$ $a +=5 = \{1,2,5\}$ $a += \{10,63\} = \{0,1,2,5,63\}$ Removing an element $a = \{1,6,10\}$ $a = 6 = \{1,10\}$ What to submit? 1.iset64test.cpp cannot be modified. All tests

Union of sets (overload with +)







must pass

- 2.Submit as a hardcopy
 - 1. iset64.h
 - 2. iset64.cpp
 - 3. Output as a pdf file
 - 4. A word doc that explains
 - 1. Data structure used
 - 2. Algorithms used for all the 6 methods above

Figure 7.14: Set

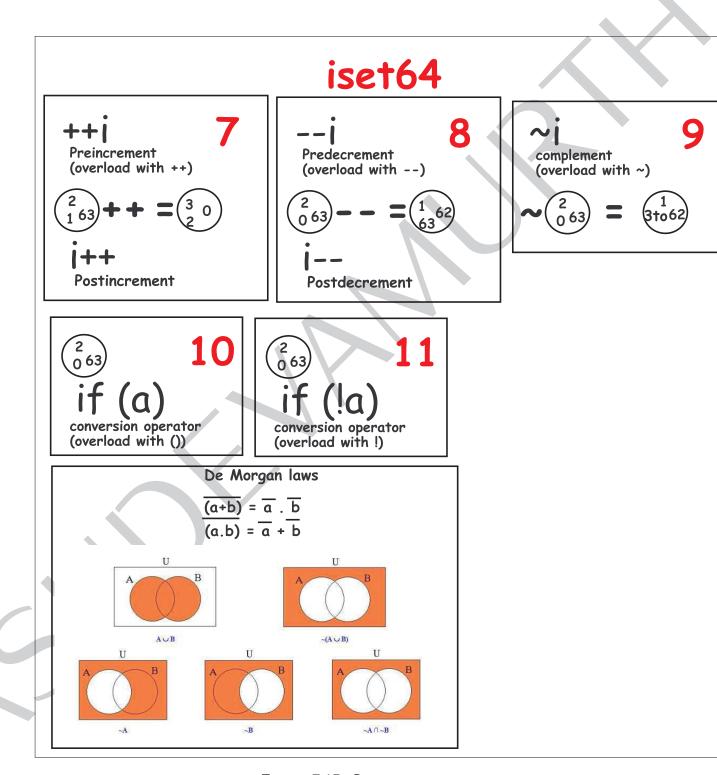


Figure 7.15: Set