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## **Discussion about Maps**

- A Map is a kind of generalized collection
  - Sets the elements are *objects* 
    - all elements are unique (no duplicates)
    - · elements are not ordered in any way
  - Lists the elements are objects
    - albeit with possible duplicates
    - elements have an ordered defined
  - Map the elements are *pairs of objects* 
    - each pair consists of a key and a value
    - keys must be unique



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## **Discussion about Maps**

- The basic operations
  - put a pair into the Map
  - remove a pair •
  - given a key, get its corresponding value ٠
  - iterate over the keys ٠
  - iterate over the values •



## Issues

- put a pair into the Map
  - what if the key is already present?
- remove a pair
  - what if the key is not present?
- given a key, get its corresponding value
  - - what if the key is not present?



## The Map<K, V> Interface



