

Lists are good at storing dynamically-sized data
 representing ordered tasks
 storing a sequence of photos

are bad at statically-sized storage
 unordered data
 user login

ADT: Dictionary $\langle K, V \rangle$

key (unique) value

{ A ↦ 5
 C ↦ 7
 Q ↦ 2
 W ↦ 7 }

- V get(K key)
- put { • void insert(K key, V value)
- void remove(K key)
- void update(K key, V value)
- List<K>* getKeys()

A
4

C
7

F
3

H
2

J
4

Z
5

B
9