CSCI 136: Data Structures and Advanced Programming Lecture 32 Hash tables, part 4 Instructor: Dan Barowy Williams Announcements

Lab 10 Part 1 extended: due with Part 2 Part 2: MTF hashtable removed All graded labs back this week (exc. 10)

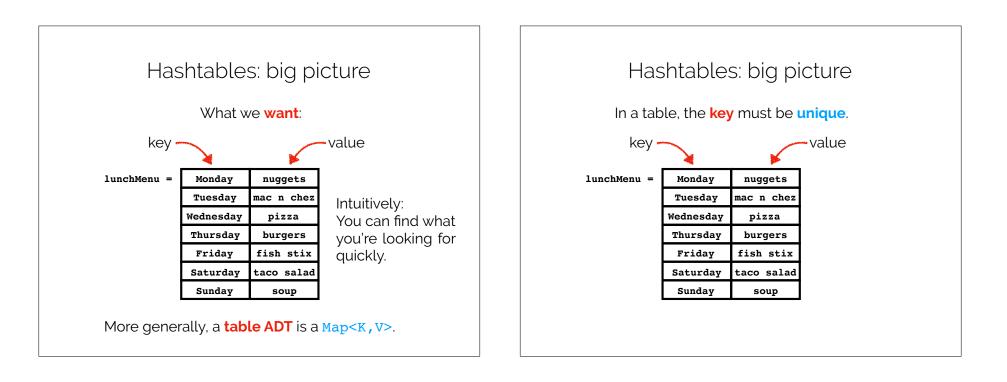
Outline

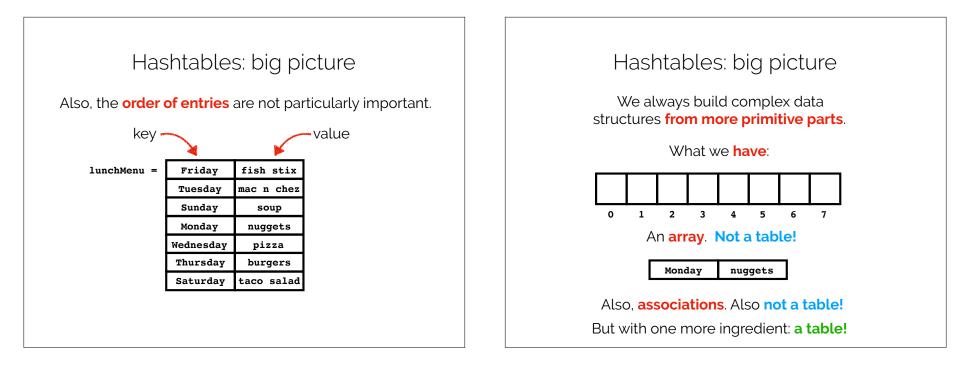
Hashtable recap

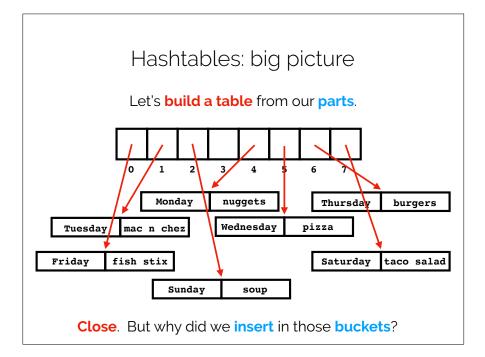
Hashtables: big picture

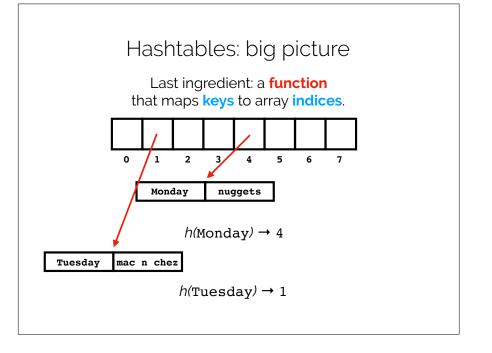
We use hash tables when our problem meets two criteria:

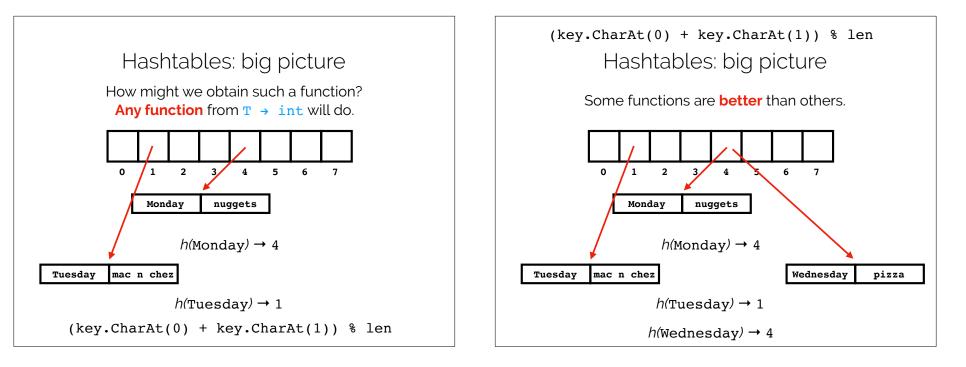
- 1. A table-like structure is convenient (i.e., a Map<K, V>).
- 2. We are willing to trade an **ordering** of elements for **high performance** (O(1) put/get), on average.

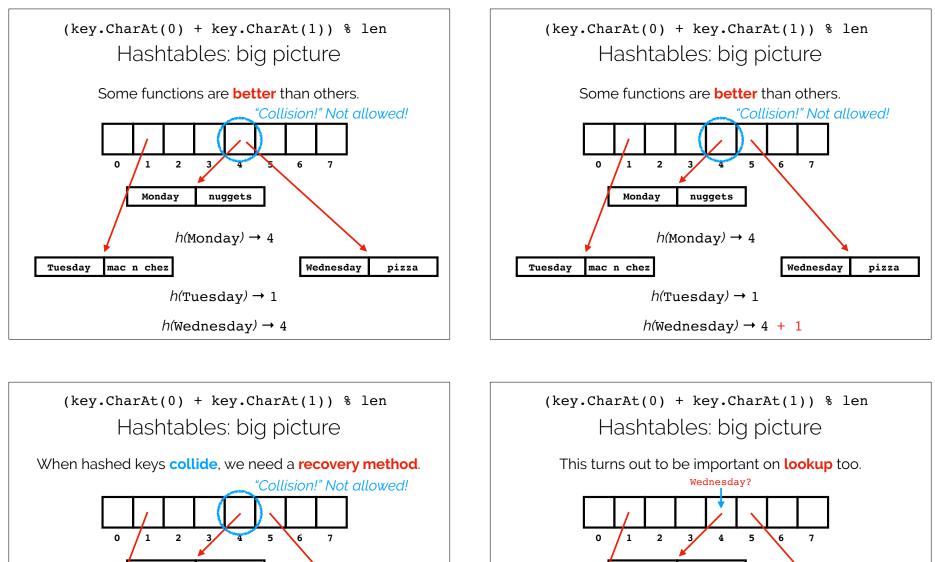












Monday

mac n chez

Tuesday

nuggets

 $h(Wednesday) \rightarrow 4$

Wednesday

pizza

