

Lab Demo 06

Friday, 12 October 2018

C++ STL map/set SHORT demo

very similar/same as to unordered version

- constructor
- insert, operator [], find, count
- range-based for loop to access the keys (in **ordered** fashion)
 - Compare with last week's demo, this is the main key difference
- erase
- empty, size
- <http://en.cppreference.com/w/cpp/container/map>
- MAGIC stuff for PS4 later: **lower_bound, upper_bound**

VisuAlgo Training Mode

Now let's try Hash Table Online Quizzes

Make sure that you understand the explanation in:

Last week's Hash Table stuffs <https://visualgo.net/en/hashtable?slide=1>

You can use VisuAlgo Online Quiz training mode to check your basic understanding about Hash Table on “infinite” number of random questions:

<https://visualgo.net/training?diff=Hard&n=5&tl=5&module=hashtable>

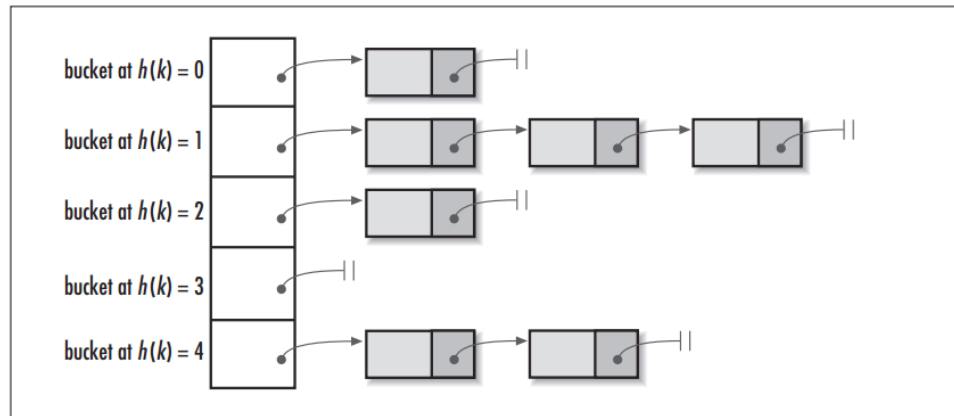
(direct URL problematic now, will debug later; just use main page)

Hash Table

- Write C++ code to create vocabulary from a text corpus
- Assume that words from the corpus is stored in a string array and given as input
- Use map, unordered_map, set, unordered_set for this task

Hash Table

- Create a dictionary to store students name and IDs with their age as the key
- Use direct addressing and separate chaining for this task



Mock PE 1

Solve <https://open.kattis.com/problems/cd>

Before this Lab session runs out (xx.45)!!

Start from given template code

Gradual hints will be added in few minutes interval

PS3 Status

Name	A	B	C	D (ignored)
Group A: $25 + 12 + 5$	AC	AC	AC	Ignored
Group B: $2 + 3 + 1$	AC	AC		
Group C: $1 + 3 + 1$	AC			
The rest of you... Group D: $0 + 3 + 4$				

Extended till next week~~ :O