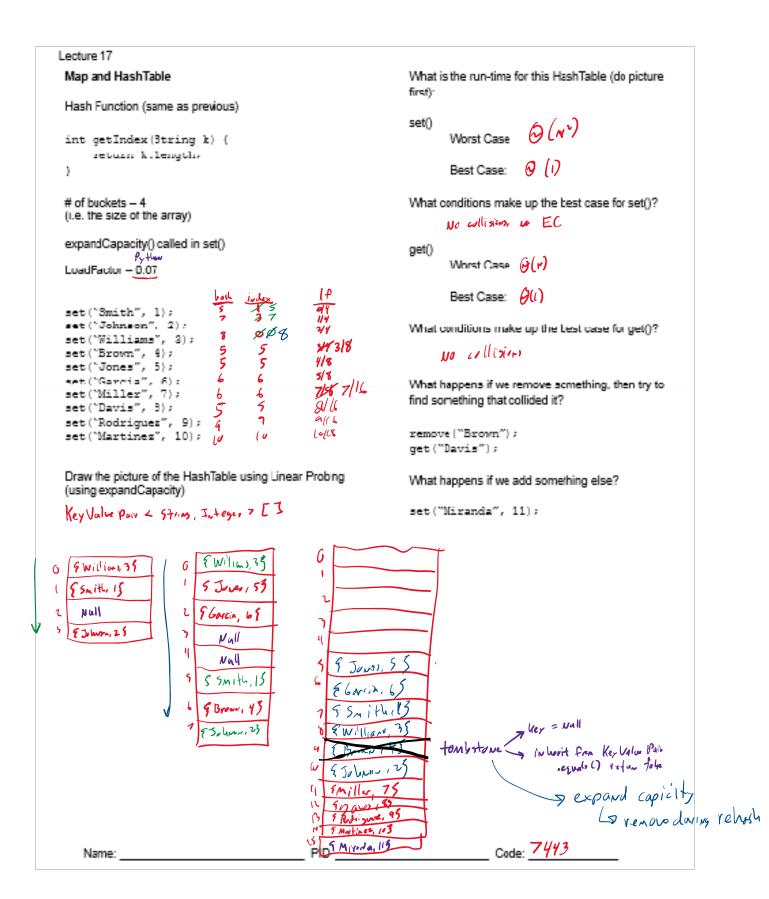
CSE12 - Lecture 17

Wednesday, May 8, 2024 10:00 AM

Exam 2 - May 15th

• https://ucsd-cse12-sp24.github.io/lectures/exam2.html



Amortized Aralysis

Why is the hash function important?

What is the run-time for ArrayList add()?

Whose
$$\mathfrak{S}(\iota) \Rightarrow \mathfrak{S}(\kappa) \Rightarrow \mathfrak{S}(\kappa)$$

even distribution
4 less/No collisions

Best Case: 6(1)

bc | binary scarch

bc | binary scarch

bc | binary scarch

bc | binary scarch

Object
Ly int hushcode ()
Strivs
Ly Int hush code ()
overible

What is the run-time for HashTable set() using Separate .75 1 Chaining and a good hash function?

sex

Find ()

Worst Case $\mathcal{O}(1)$ \Rightarrow $\mathcal{O}(2)$ \downarrow $\mathcal{O}(2)$

Best Case: $\mathcal{P}(\iota)$

Average Case: (J(1) per of

90 NC 64(N)
60 00(1)

What is the run-time for HashTable set() using Linear Probing and a good hash function?

Rest Case: (2(1)

Average Case: (1) per all

Sex

,67F

2 34 34 364

Oli) per add

1024

2. called EC 9 times g ·

16. 36.

64

128.

287.

512.

1124.