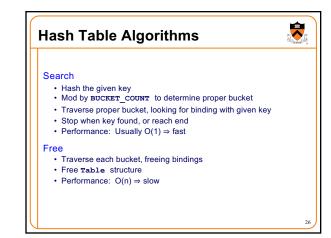
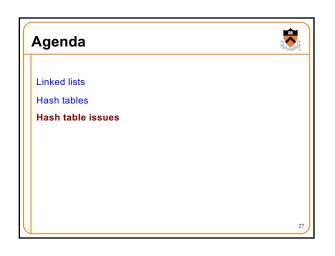


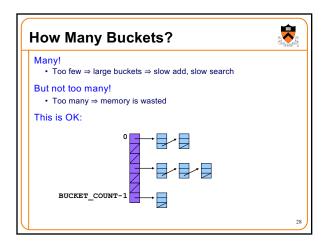
### iClicker Question

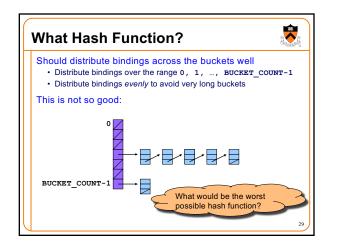
Q: How fast is adding a key to a hash table?

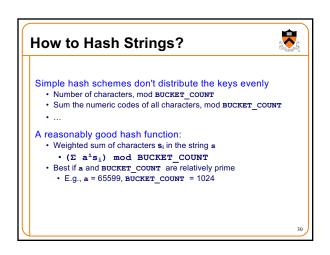
- A. Always fast
- B. Usually fast, but depends on how many keys are in the table
- C. Usually fast, but depends on how many keys hash to the same bucket
- D. Usually slow
- E. Always slow

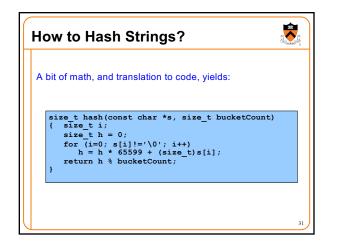


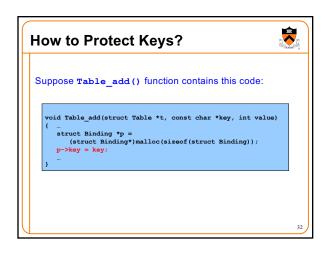


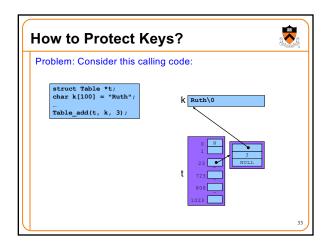


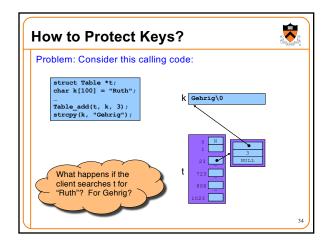


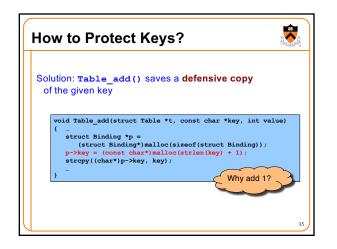


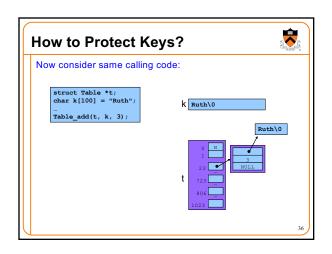


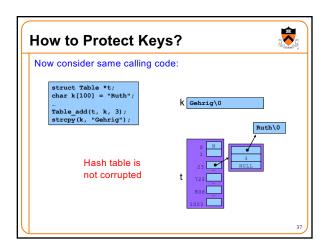


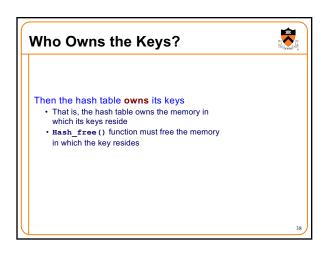


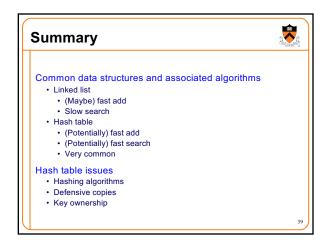


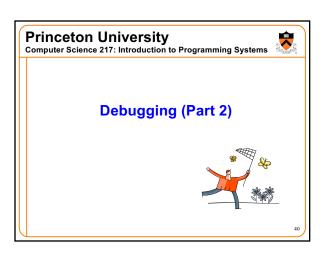


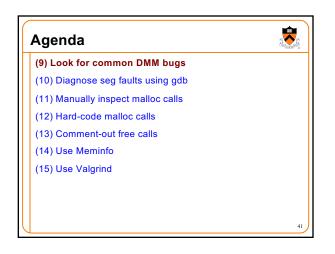


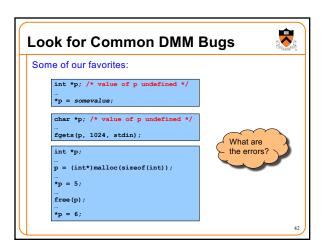


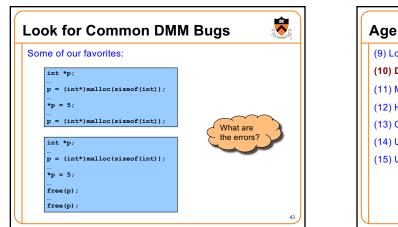




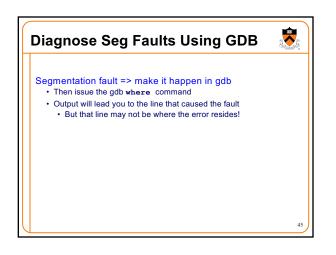




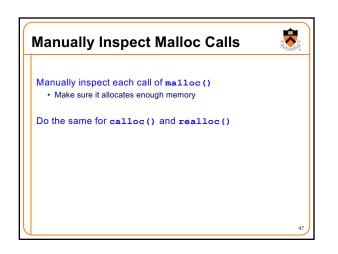


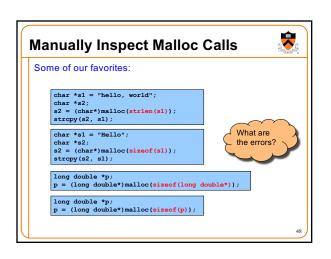






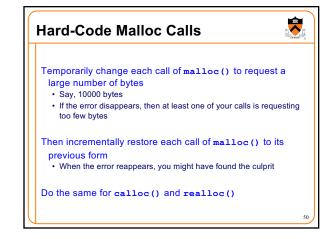






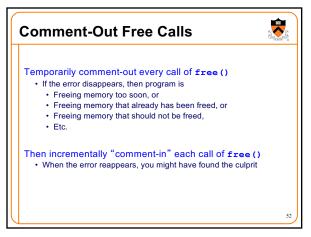
#### Agenda

- (9) Look for common DMM bugs
- (10) Diagnose seg faults using gdb
- (11) Manually inspect malloc calls
- (12) Hard-code malloc calls
- (13) Comment-out free calls
- (14) Use Meminfo
- (15) Use Valgrind

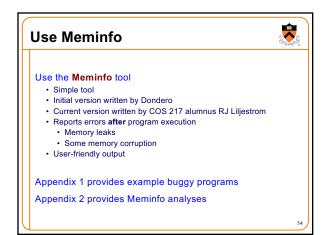


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**7** 



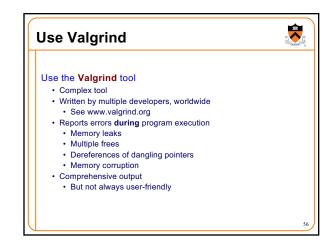
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(9) Look for common DMM bugs

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