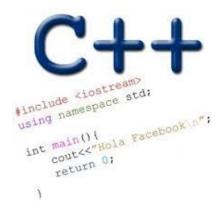
# FINAL REVIEW



#### Problem Solving with Computers-I

https://ucsb-cs16-wi17.github.io/





### Final Exam!

- Monday (06/12) 4pm to 7pm CHEM 1171
- Assigned seating will be posted on Piazza
- Everything we have covered so far is on the exam
- Duration: 3 hours
- Closed book: no calculators, no phones, no computers
- Only 1 sheet (double-sided is ok) of written notes
  - Must be no bigger than 8.5" x 11"
  - You have to turn it in with the exam

## Final Exam Review and study session!

- Friday (06/09) 3pm to 6pm PHELPS 3525 (conducted by mentors)
- I will hold extra office hours on Thursday 10am noon, Friday: 9am to 10am

#### Final Exam Resources

https://ucsb-cs16-sp17.github.io/exam/e03/

## Review

- Pointers
- Linked List
- Recursion

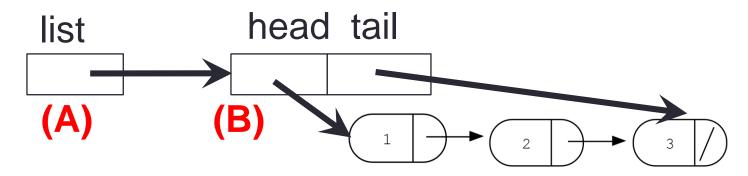
#### Take notes!

https://ucsb-cs16-sp17.github.io/exam/e03/

# Deleting the list

int freeLinkedList(LinkedList \* list){...}

Which data objects are deleted by the statement: delete list;

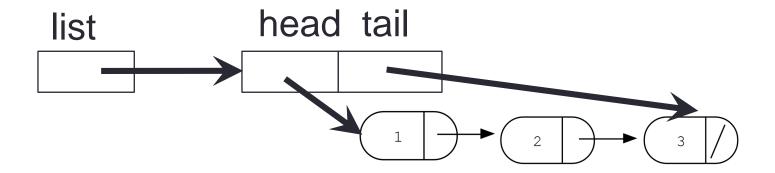


(C) All nodes of the linked list

(D) B and C(E) All of the above

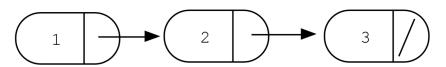
## Delete the list

int freeLinkedList(LinkedList \* list);



## Recursion on lists: delete a value recursively

void deleteNodeRecursive(LinkedList \*list, int value)



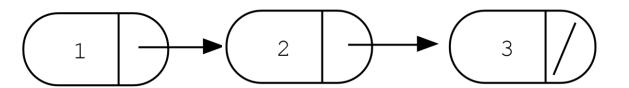
Node\* deleteNodeRecursiveHelper(Node \*head, int value)



# Searching for a value in a sorted array

10	20	30	40	50	60	70	80
0	1	2	3	4	5	6	7

# How do you decide which data structure to use?



1 2 3

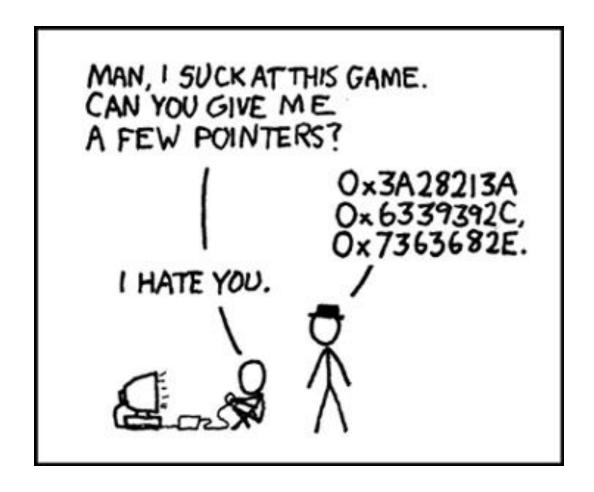
## Some comic relief...

	COMMENT	DATE
Q	CREATED MAIN LOOP & TIMING CONTROL	14 HOURS AGO
Ιφ	ENABLED CONFIG FILE PARSING	9 HOURS AGO
Ιφ	MISC BUGFIXES	5 HOURS AGO
Ι¢	CODE ADDITIONS/EDITS	4 HOURS AGO
Q_	MORE CODE	4 HOURS AGO
ΙÌÒ	HERE HAVE CODE	4 HOURS AGO
	AAAAAAAA	3 HOURS AGO
φ .	ADKFJ5LKDFJ5DKLFJ	3 HOURS AGO
φ	MY HANDS ARE TYPING WORDS	2 HOURS AGO
þ	HAAAAAAAANDS	2 HOURS AGO

AS A PROJECT DRAGS ON, MY GIT COMMIT MESSAGES GET LESS AND LESS INFORMATIVE.

HTTP://XKCD.COM/1296/

### Some comic relief



## Good luck with the final!



