

Topics Covered

- 1. Enums
- 2. Structs
- 3. Pointers
- 4. Linked-Lists
- 5. ADTs
- 6. Stacks/Queues
- 7. Error Check Input

and other smaller topics like oss, strings, etc.

Exam 2 - Review

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Some tips – avoiding test anxiety

Get a good nights rest

• I know this is tough, but you don't think as well without sleep

Don't skip a meal before an exam

• Your brain needs protein → try not to eat a high carb meal

Don't Cram! Pace your studying

- Try not to put it off until the last minute
- If you pace yourself → you will be prepared

Study with classmates so you can compare notes

- don't discuss the exam just before coming in
- their anxiety may impact you

Take deep breaths → relax yourself

 \bullet Think positive thoughts \rightarrow remind yourself that you are prepared

Don't get bogged down on a question

answer the questions you know quickly → go back to the others

Ask Questions

• Calm yourself before you come in...

Avoid being late

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Enums & etc

- How would you define an enumerated type to represent the cardinal directions?
- Declare a variable of the enum type
- Assign a value to your variable:
- Know how to write a function to convert an enum into a different type, convert an input into an enum, or output it as something other than its int value

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• Write a function to output the direction

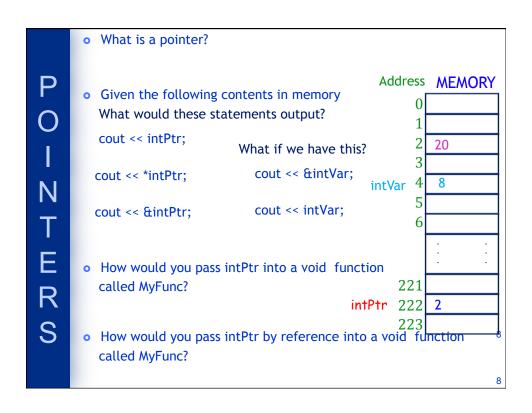
n u m s e t c

Ε

- Understand string manipulations such as substring
- Know how to use oss (ostreamstring)

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What is the advantage of using structs? What is a member? Are aggregate operations allowed on structs? Can you pass structs by value or reference? Can structs be a return type? How do you access a member of a struct? What if you are using pointers



POINTERS

- Know how to access members of a struct using pointers.
- What if you want to access what the pointer member is pointing to?
- Be able to ...
- Create a linked list
- Write a piece of code to add a new node to a list.. or create a linked list from a file
- Know how to search a linked list...
 What type of loop should you use?

What should your loop check for?

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Linked

 Define a struct called DvdNode, that contains the title, genre, and running time(in minutes) that can be used in a linked list

- Create an empty list to your node defined above
- Create an instance of your struct?

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What is an ADT? What is a stack? What is LIFO? T/F FILO is the opposite of LIFO. Which represents a stack? T/F Stacks can only be represented using linked-lists Be able to answer the same questions w.r.t. queues

\ /	What loops best suits error checking input?	
v a	 Be able to error check input using a do while loop. 	
I		
i	 What are the two problems that occur when a char is entered when a float or int is expected? 	
d		
1	• What is the end result of these two problems?	
n p	• What are the two steps we need to fix these problems	
u	• What does if (!(cin >> num1)) do?	
t	1	2

