

Topics: Pointers, Structs with Functs, Strings as Arrays

Approach: Discussion, Explanation, Discussion

Main Ideas: Pointers, Structs with Functions, Strings

1. Admin

Remember to check <http://www.cs.tufts.edu/comp/11>

Reading: 9.1, 9.2

Midterm Wednesday

2. Intro: Palindromes

a. What are they?

b. Here are 470K words, which ones are palindromes?

- how could you find them?

c. Here are some sentences, which ones are palindromes?

- how would you find them?

3. Pointer Facts: do ptr1

- fact: every variable has an address in memory

- term: *pointer variable* a variable that holds an address

- `&var` : finds the address of a variable

- `*ptr` : synonym for the variable at address stored in ptr

- `int* p` : create an int pointer variable

- Do ptr probs: ptr2, ptr3 (note: passing ptrs to funcs)

4. Quiz

5. Problem: Reverse a List

a. Solution 1

- a struct with the list, capacity, used

- some functions

Q: do we call by value or call by reference?

b. Solution 2

- put the functions into the struct

- note: no need to worry about ref vs val

