COMP1511 PROGRAMMING FUNDAMENTALS

LECTURE 16

Exam-Style Questions



YESTERDAY.

- Exam Information

• A few exam style questions

• Exam Style Questions





Live lecture code can be found here:

HTTPS://CGI.CSE.UNSW.EDU.AU/~CS1511/25T1/CODE/WEEK_9/

WHERE IS THE CODE?





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0 AMPL

Problem 1: Find the range (the difference between the biggest term and the smallest term) of a linked list

BLEN AMPL

Problem 2: Concatenate two linked lists (join one linked list to another)

0 щ AMPL

Problem 3: Given two linked lists, return the difference in the number of items in the two lists.

BLEN AMPL

Problem 4: Count all the elements in the linked list that are divisible by a given number and output the count.

BLEM AMPL

Problem 5: Given two linked lists, count the number of even numbers in both linked lists and return the difference.

BLEM AMPL

Problem 6: Insert a specified number into an ordered linked list, to retain the order of numbers.

BLEN щ AMPL

Problem 7: Delete the first node in the list that is divisible by 6

BLEM A M P L

Problem 8: Duplicate every node in the list by inserting the same node after the original node.

BLEN 0 A P L L

Problem 9: Find the smallest element in the linked list and return it's position in the list.

BLEN 0 A N P I

Problem 10: One that we make up ourselves :)

щ AMPL

Problem 11: In this task, you are given an array of integers with exactly size elements, and a target number. Your function closest_to_target should return the sum of any two numbers in the array that is closest to the target number.

AMPL

Problem 12: Read integers until a negative integer is read and then print odd and even integers on separate lines

щ A M P L

Problem 13: Read integers into an array from terminal until a number is entered, which when multiplied by at least one other number previously entered results in 56.

AMPL

Problem 13: The function sum_cont_subarray should return the largest contiguous sum of a subarray in a given array

A M P L

Problem 14: An isogram is a word in which no letter of the alphabet occurs more than once. Write a C program that reads in words until Ctrl+D and checks whether the word is an isogram.

AMPL

Problem 15: Write a C program that reads in words until Ctrl+D, and checks whether a word read in as a command line argument appears in the main word. If it appears, print it again.

WHAT DID WE LEARN TODAY?

REVISION

Linked Lists

problem6.c

problem1.c problem7.c problem2.c problem8.c problem3.c problem9.c problem4.c problem5.c

REVISION

Arrays

problem11.c

problem12.c

problem13.c

REACH OUT





CONTENT RELATED QUESTIONS

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