Home

Hours

Syllabus

People/Office

Lecture Schedule

Consider the following C++ code. For the following questions, all of the points for this problem will be assigned based on your explanation, since we have full faith in your ability to run this program and copy down the answer.

To show work, you can draw a call tree or box diagram of the function calls using some simplified substitution of your choice rather than pointer values (e.g. "p3" for a pointer to a node with value 3). Submit your answers as a PDF (using some kind of illustration software or scanned handwritten notes where you use your phone to convert to PDF) showing your work and derivations supporting your final answer. **You must name the file q4_answers.pdf**

```
Exercises
                    1 orange = Sist sel
struct Node {
                                                                Assignments
                    In 1=1234
    int val;
   Node* next; * purple a second set - if (in les noulp
                                                                Labs
                     In Londlyhr
                     In 2 = 2
                                                               Resources
Node* llrec(Node* in1, Node* in2)
                                                               Wiki
                                                             in 2-9 ncxt = ((1 - 5)
                                                                 return 12
    if(in1 == nullptr) {
        return in2;
    else if(in2 == nullptr) {
        return in1;
    }
    else {
        in1->next = llrec(in2, in1->next); u in b = 6
        return in1;
    }
}
```

Question a: What linked list is returned if 11rec is called with the input linked lists in1 = 1,2,3,4 and in2 = 5,6? returns 15,2634

Question b: What linked list is return if 11rec is called with the input linked lists in1 = nullptr and in2 = 2?

Problem 5 - NOT GRADED (PRACTICE