

6 Handwritten Problem

This problem is to be submitted independently. We recommend trying it on your own, checking your answer with your group and discussing solutions, and then submitting it to Gradescope. These will be graded on completion, not by correctness. However, we want to see that you were thinking about the problem.

Writing your solution by hand is good practice for the exams and therefore strongly recommended. You may submit your solution to Gradescope in the form of a PDF, image, or similar. You may also submit your solution to Gradescope in the form of a .cpp file. For this lab, if you implement your solution in `palindrome.cpp` and submit this file to Gradescope, the Gradescope autograder will provide feedback.

Your grade does not depend on the format of your submission or the feedback from the autograder. Your solution is graded solely on completion and not by correctness.

The starter files can be found on Canvas.

24. **Linked-List Palindrome** Given the `start` and `end` nodes of a doubly linked list, determine if the values create a palindrome. A palindrome is a sequence that is the same backwards and forwards. See the definition of the `Node` struct below, or in `palindrome.h`. Return `true` if the list is a palindrome.

```
struct Node {
    Node* prev;
    Node* next;
    char value;
}

bool isPalindrome(Node* start, Node* end);
```