Post-Mortem

${\rm CS}135$ Winter 2025, Midterm

Question 1
—— The most common error was answering true for part (e).
Question 2
— A common error was using list abbreviations, as they are disallowed for this question.
—— For part (a), a common error was answering (cons 'green empty).
Question 3
—— One common error was not naming the function correctly.
—— Another was trying a recursive approach when only a mathematical expression is needed.
Question 4
—— Some students did not correctly implement checking if a number is odd, such as thinking remainder only consumes one argument.
—— Some solutions were missing the checks for being odd or being positive.
—— Some implementations used odd?, which is not an allowed function.
—— Some solutions did not correctly use short-circuit evaluation.
Question 5
—— A common error was using list or append instead of cons.
—— Some solutions had an incorrect base case.
—— Some solutions did not correctly check for primary colors, e.g., using = instead of symbol=?.
Question 6
—— Many solutions had incorrect base cases.
—— Some solutions incorrectly utilized append.
—— Some solutions produced a reversed answer.

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Question	•

—— The most common errors were getting parts (d) and (e) wrong.

Question 8

- —— Many solutions had an incorrect base case.
- —— Some solutions had incorrect recursive calls.
- —— Some solutions did not use the provided helper function, in?.

Question 9

- A common error was having an additional cons before the call to zipper, producing a list of lists.
- —— Some solutions incorrectly used cons or append.
- —— Some solutions added items to the zippered list backwards.
- —— Some solutions made incorrect recursive calls, leading to non-terminating programs.

Question 10

- Many solutions incorrectly called min and max on lists.
- —— Some solutions incorrectly initialized accumulators with static values like 0 instead of (first lst) or such.
- —— Some solutions used append instead of cons.
- —— Some solutions only checked between the first two elements of a given list for the minimum and maximum elements.