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Note!

- To receive credit, you must show your work and steps for each problem.
- Provide explanation as required or as if you wish to.
- When asked, draw the correct map(s) or structure(s) and record the EXACT output for full credit.
- Put your name on all sheets.

Reminder!

- ❖ When writing code (even by hand), pay attention to syntax and statement completeness, and
- ***** Be consistent when selecting names for functions and variables as well as styles and conventions

Problem #1

Given the following declaration EXACTLY as they are, what may be the error(s)?

```
struct Fraction { // Your Comment
  int num;
  int denom;
};

struct FractionNode { // Your Comment
  struct Fraction data;
  struct FractionNode* next;
};

struct FractionList { // Your Comment
  struct Fraction* data;
  struct Fraction* data;
  struct FractionNode* next;
};
```

Problem #2

The following declarations and definitions are used in the given functions and exercises.

```
//// Given Data Definitions /////
struct IntNode {
 int data;
 struct IntNode* next;
typedef struct IntNode* IntNodePtr;
typedef struct IntNode* IntList;
struct IntNodeAddress {
 IntNodePtr nodeAddress;
 struct IntNodeAddress* next;
};
struct Fraction {
 int num;
 int denom;
};
struct FractionNode {
 struct Fraction data;
 struct FractionNode* next;
};
typedef struct FractionNode* FractionNodePtr;
typedef struct FractionNode* FractionList;
```

What may be wrong/inappropriate with the function below? Provide your explanation.

```
int getIntMatchTest(IntList head, int target) {
  int counter = 0;

  while (head != 0) {
    if (head->data == target) {
       counter++;
    }
    head = head->next;
  }

  return counter;
}
```