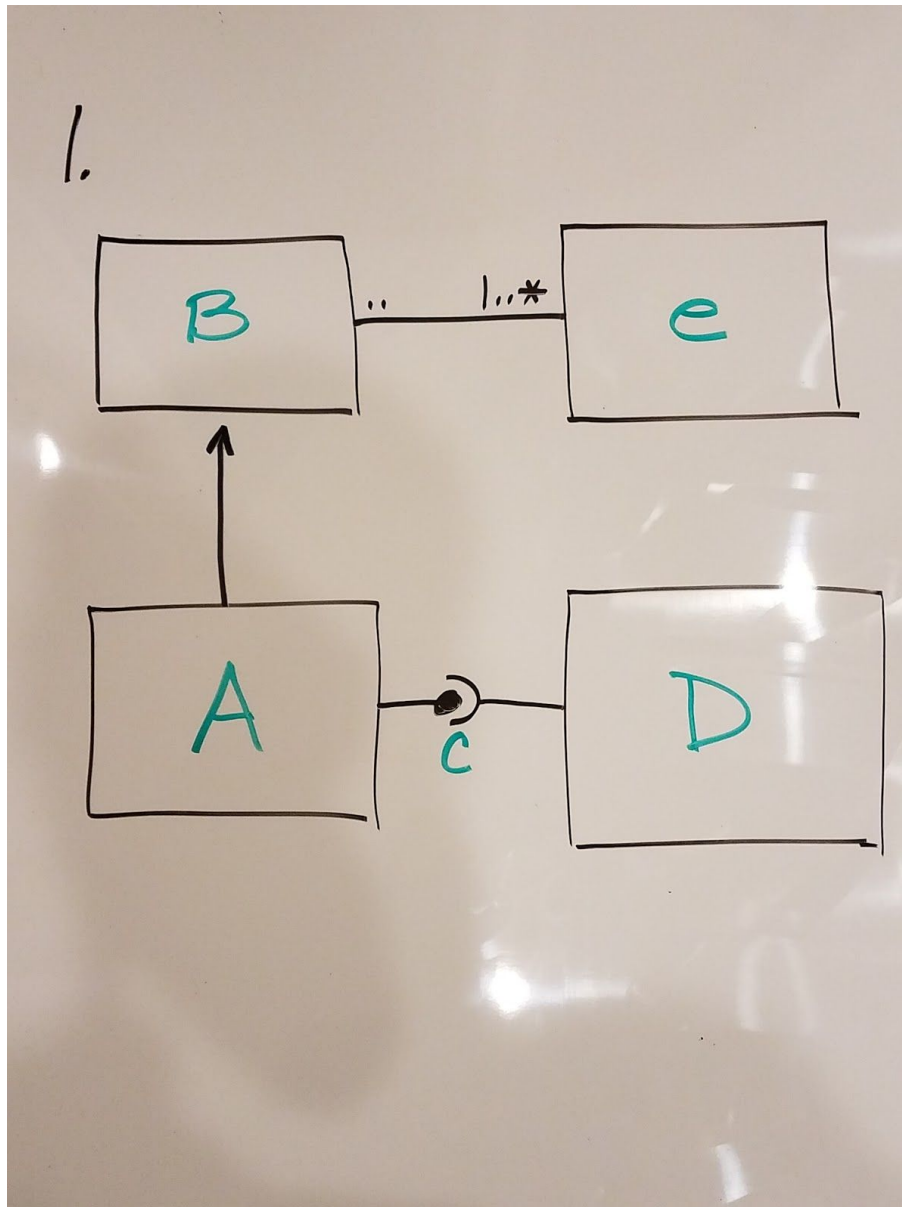


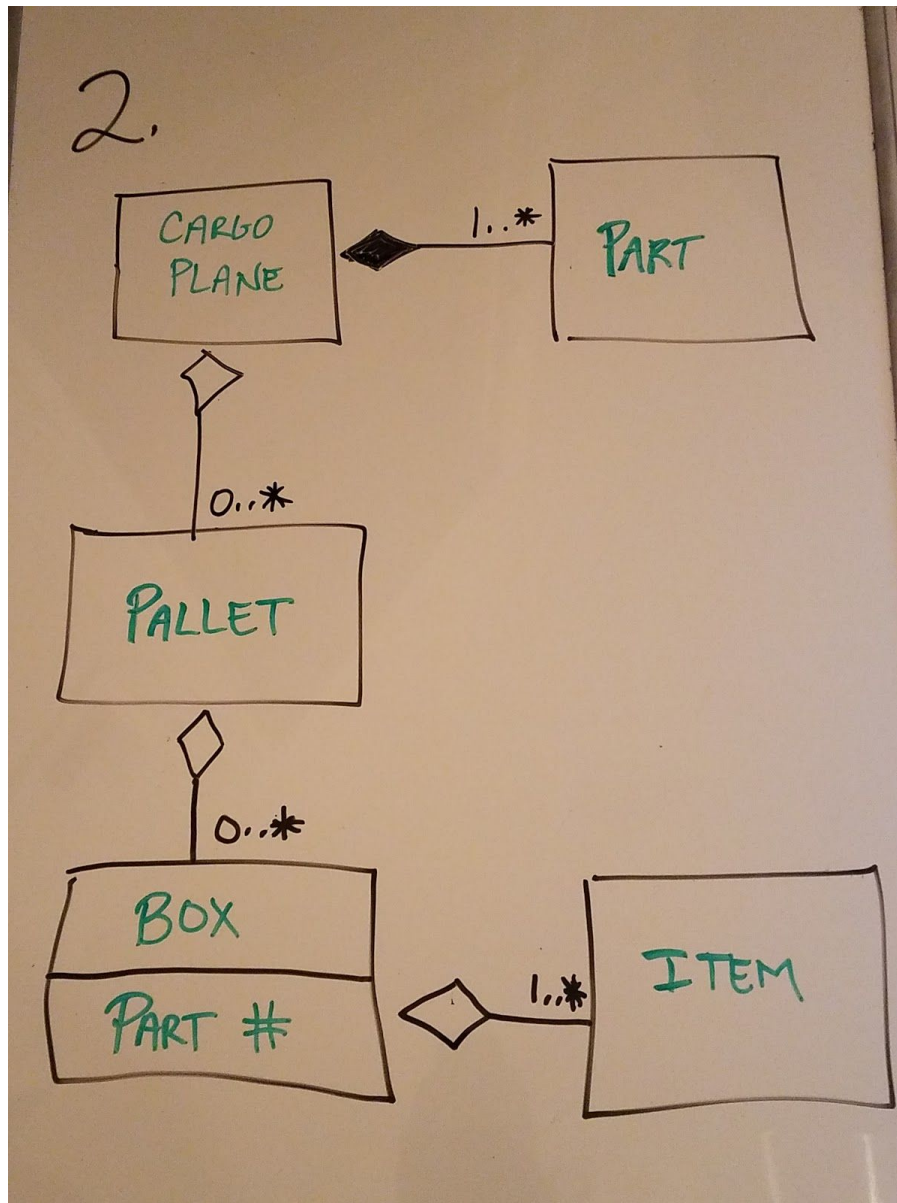
**Homework 2:**

*Tyler Benson, Tyler Mooney, and Benjamin Goldstein*

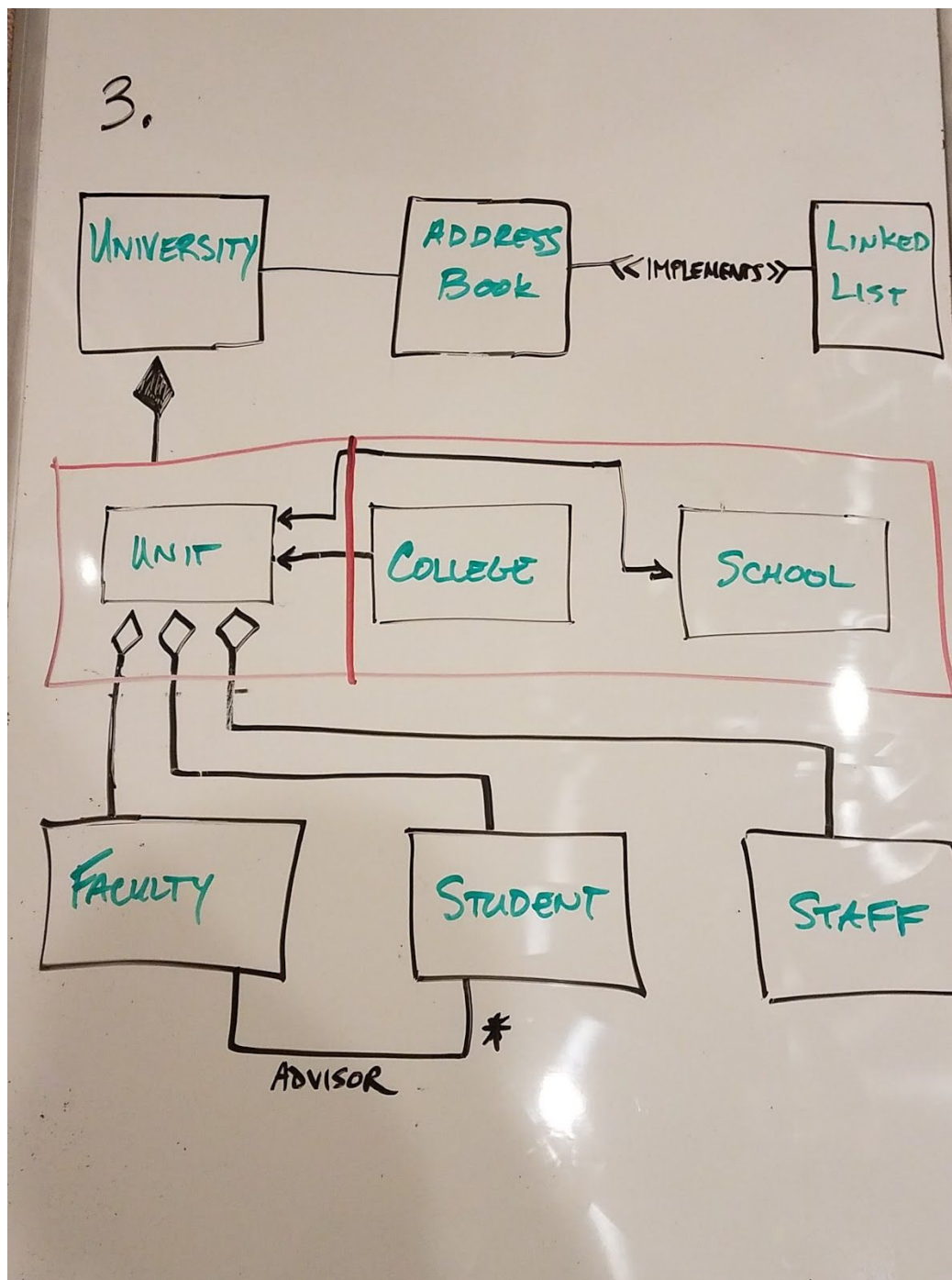
1.



2.



3.



**4.** No. D cannot access an instance of B via C's interface because B does not implement the C interface, only A does.

**5.** Changing the way that a function behaves violates a few different design considerations. First and foremost it violates design by contract, where each function and class fulfills its requirements. It violates coupling, since it means any function that accesses the `getArea()` method of `Shape` must know if that shape is a `Square` since it behaves differently. This change will reduce maintainability, clarity, and probably functionality.