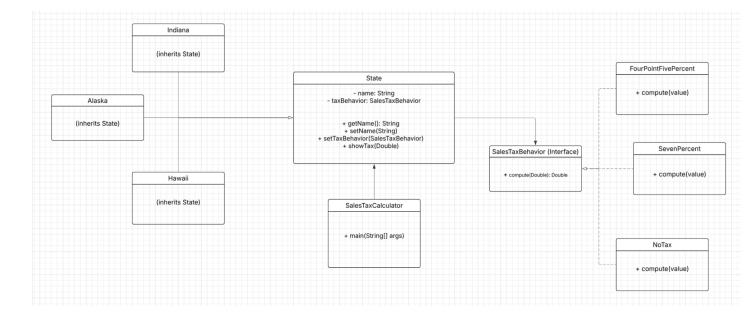
Problem 1 Part B:



Problem 2:

- 1. MallardDuck to Duck = IS-A, MallardDuck inherits from Duck, meaning it is a type of Duck.
- 2. RedheadDuck to Duck = IS-A, RedheadDuck extends Duck, inheriting its properties and behaviors.
- 3. RubberDuck to Duck = IS-A, RubberDuck is a subclass of Duck, following the inheritance hierarchy.
- 4. DecoyDuck to Duck = IS-A, DecoyDuck inherits from Duck, meaning it is a type of Duck.
- 5. Duck to FlyBehavior = HAS-A, The Duck class has a FlyBehavior, allowing it to assign different flying behaviors.
- 6. Duck to QuackBehavior = HAS-A, Duck has a QuackBehavior, meaning it moves quacking to an external object.
- 7. Quack to QuackBehavior = IS-A, Quack implements QuackBehavior, meaning it is a type of quack behavior.
- 8. Squeak to QuackBehavior = IS-A, Squeak implements QuackBehavior, meaning it is a type of quack behavior.
- 9. MuteQuack to QuackBehavior = IS-A, MuteQuack implements QuackBehavior, meaning it is a type of quack behavior.

Problem 3:

