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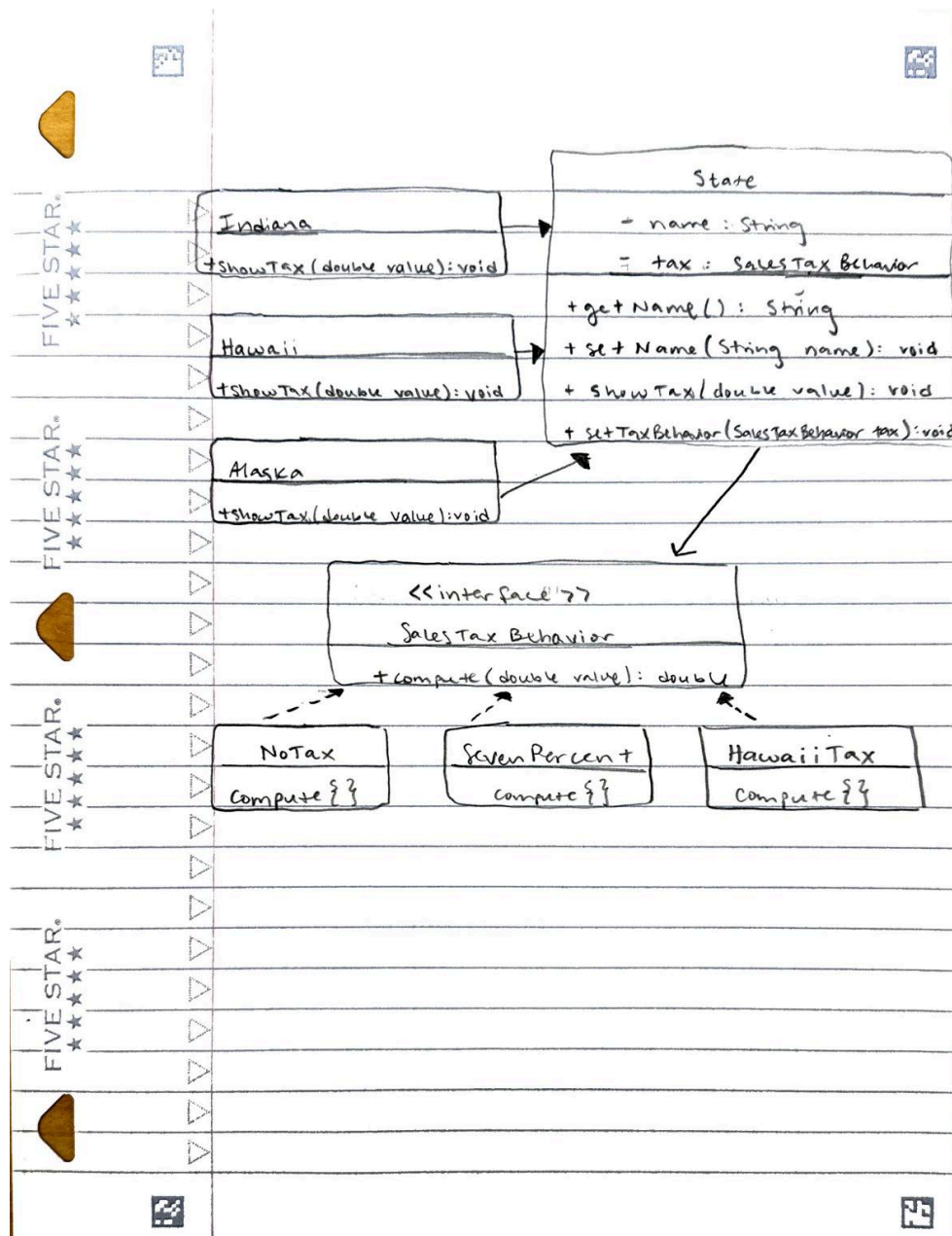
CSCI-C 322

Assignment 1

1.

Part A) Code has been pushed to GitHub.

Part B)



2. Relationships 1, 2, 3, and 4 are examples of IS-A. This is because each of MallardDuck, RedheadDuck, RubberDuck, and DecoyDucks are all ducks. In terms of OOP, they

extend the Duck class and each override its display method. Arrow 5 is a HAS-A relationship. This is because the class Duck contains an instance variable for FlyBehavior - in other words, it HAS flying behavior. Arrow 6, likewise, is a HAS-A relationship because the Duck class contains an instance variable for QuackBehavior. Finally, arrows 7, 8, and 9 are all IS-A relationships because Quack, Squeak, and MuteQuack all extend the QuackBehavior class and override its quack method.

3.

