## Lab 3 Task 4 Solution

## 4) Plan a Player class and 3 subclasses

1. Get out some paper and write down the four class names *Player*, *RandomPlayer*, *StrategicPlayer*, and *UserPlayer* with lots of space below each in which to describe their data and their methods.

Player	RandomPlayer	StrategicPlayer	UserPlayer

2. You are going to make a simple diagram like Figure 1.

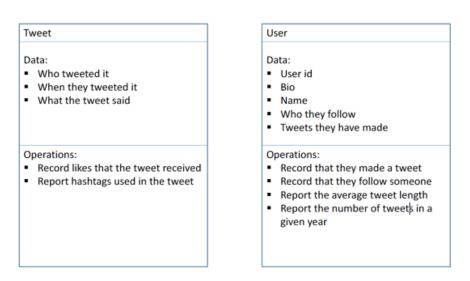


Figure 1: Design for twitter example

- 3. You already identified which methods are needed based on your reading of the starter code.
- 4. Decide which methods belong in which class and add them to the appropriate spot in your diagram.

Player	RandomPlayer	StrategicPlayer	UserPlayer
Data:	Data:	Data:	Data:
Operations:	Operations:	Operations:	Operations:
- move	- move	- move	- move

- 5. What information must be stored in order in order for these methods to provide their services?
- 6. Don't worry about attribute names or types yet, just describe the information in plain English.
- 7. Decide which pieces of information belong in which class and add them to the appropriate spot in your diagram

Player	RandomPlayer	StrategicPlayer	UserPlayer
Data:	Data:	Data:	Data:
- Name	- Name	- Name	- Name
Operations: - move	Operations: - move	Operations: - move	Operations: - move