





Test Info

Thu onwards - Sat

Everything upto strings ~~X~~  
(excluding Analysts, OOPS, 2D Arrays) ~~X~~ ~~X~~

Recursion  
~~X~~

Binary Search  
~~X~~

✓ [   
→ loops  
→ Basic Arrays  
→ Strings  
→ if-else  
]

Min

1 Full Question + 1 partial

out of 4-5 problems

2-3 hours

Beginner → Comfort level with any language

⇒ OOPS - 2 (optional)

Low  
Level  
Design

→ Some concepts little advanced its okay.

this

◦ Classes

◦ Object

◦ Constructor

◦ "this"

- Static keyword
- static class
- getters & setters

data member  
method

Class Dog {

String name,  
int hunger;

Dog()

Dog(name, hunger)

void eat(){

}

void roam(){

}

↑ 0-100

← Default Const

← Parametrised Const

which init dog

Dog

main

↳ count → shared variable  
across  
all dog  
object

class

Dog.Count = 2

2 static

Bruno

X 1

object

Cody

X

object

owner

Dog.Count

1

add

2

3

1

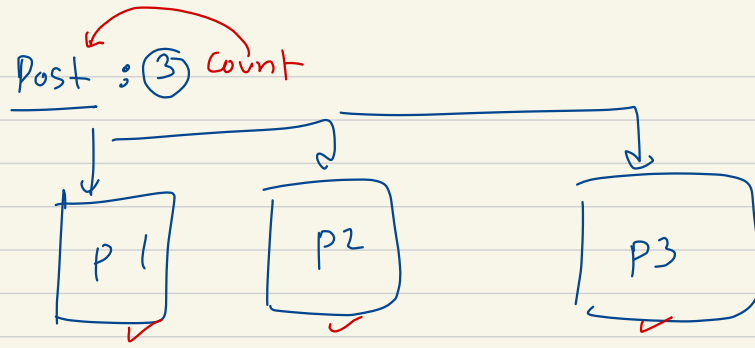
Person {

static String country;

~~int~~ ~~int~~;

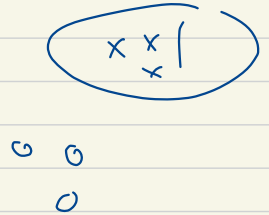
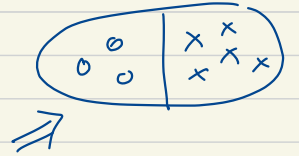
String adhar-id,

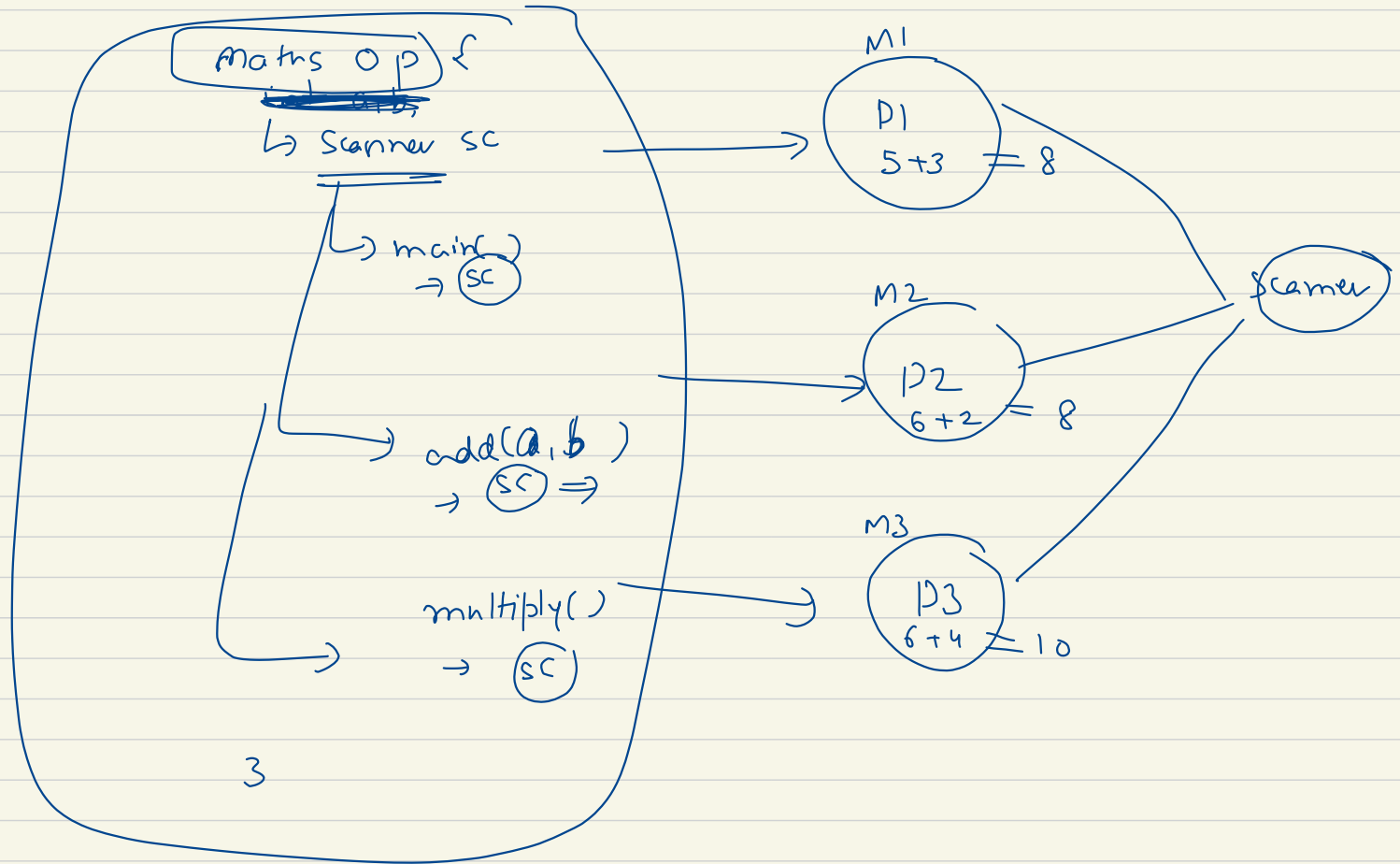
// Instance Variable



OOPS

↳ Data Binding / Encapsulation





# OOPS

## ↳ Encapsulation

◦ Bundling ( Instance Variables + Methods )  
in a Class

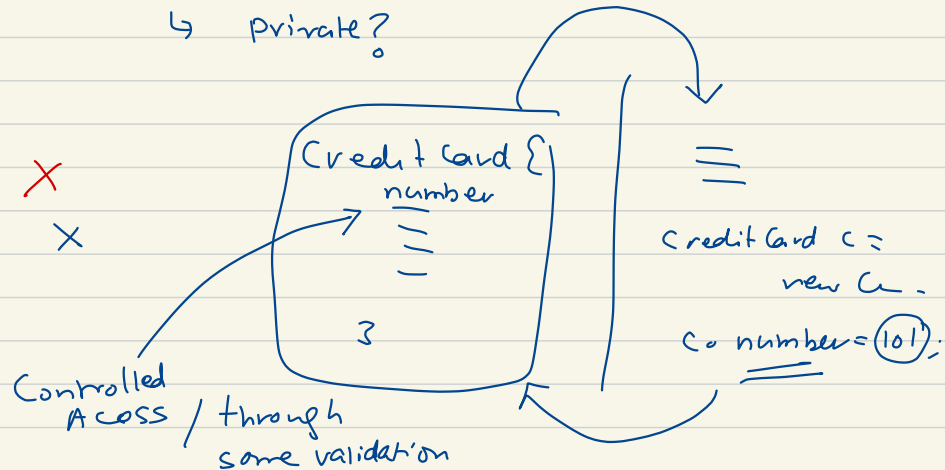
◦ Data Hiding

↳ getters & setters.

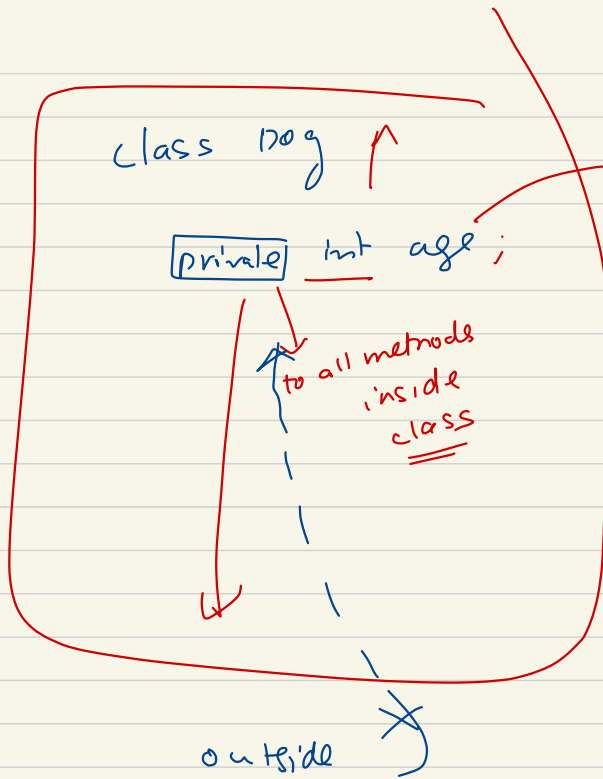
↳ private?

Ex

price → -ve X  
credit card → X







Restrict format

→ Read the age ✓

→ write Access X

→ write Access + Validation  
in my setter.

Breed → getter

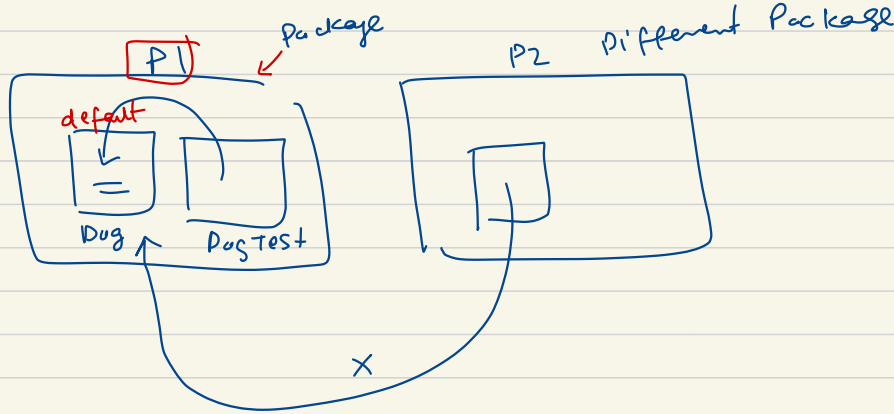
Age → getter + setter

name → X

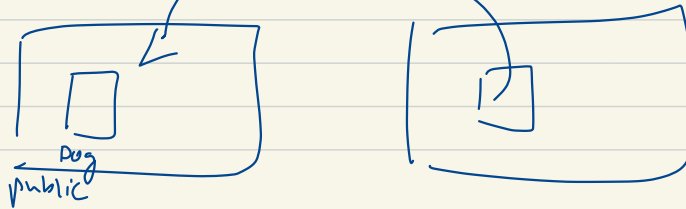
Default

"visible"

↓  
within the same  
package



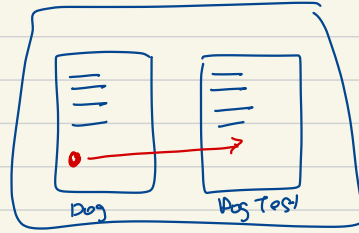
visible  
everywhere ← public



→ Private

Package

Not  
visible  
in  
same  
package



→ getters &  
setters

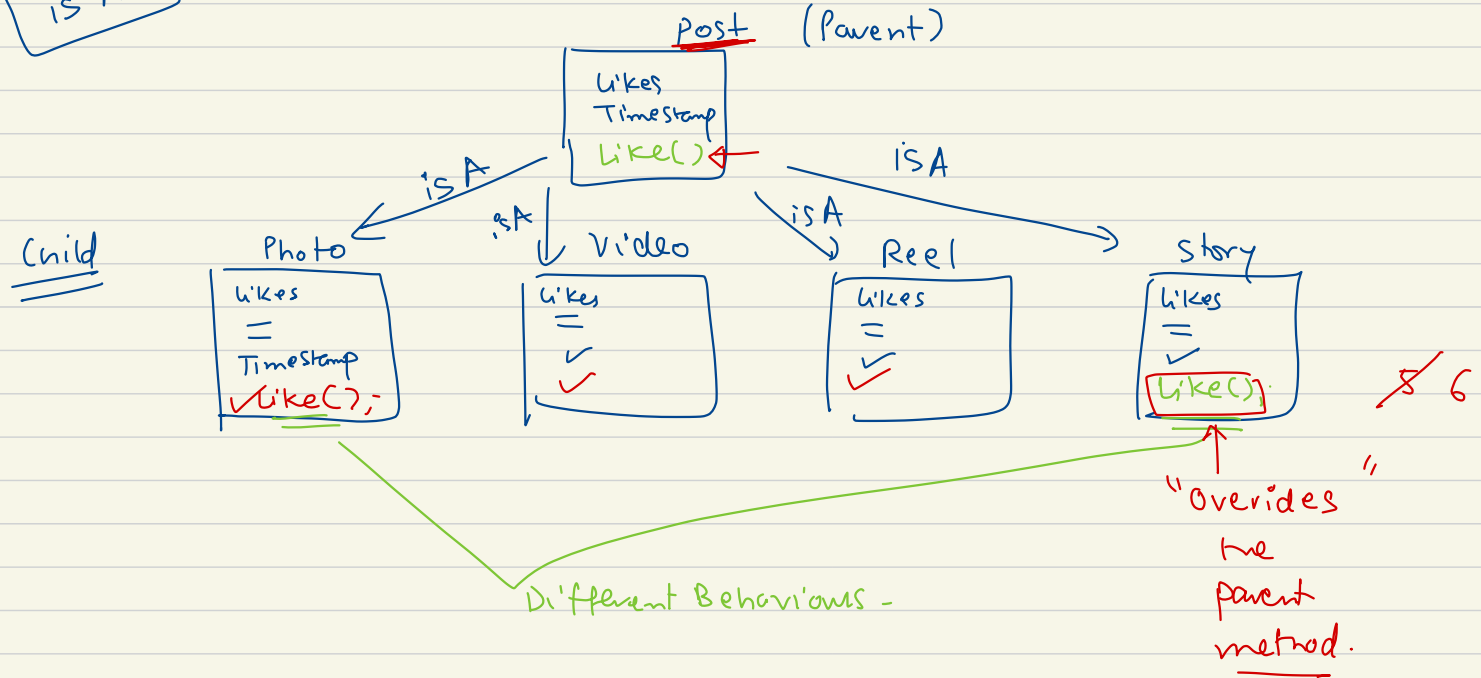
for data hiding

⇒ Protected

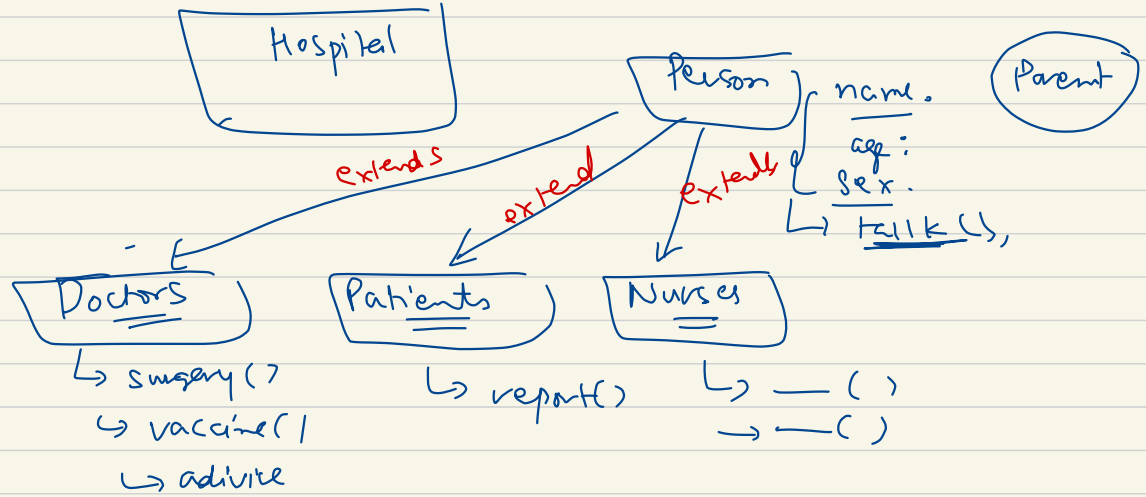


# Inheritance

is A



has A



Doctor	<u>is A</u>	Person
Doctor	X	Hospital



class Hospital {

has A

doctor  
doctor

general phy,  
surgeon,

3

① Bathroom has A Tub

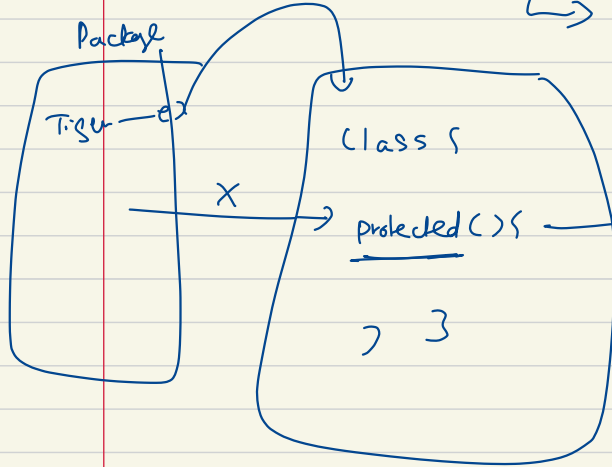
② Dog is A Animal } → Inheritance

③ Player has A player Game (Already Done)

Game {

Player 1;  
Player 2;  
}

protected



visible to child  
the subclasses and  
in same package.



# Java OOPS

Class -1

Class -2

Intermediate

Adv.

Optional

✓

14 Feb

2-3 months

4-5 months

[ Low  
level  
Design ]

OOPS

[  
=  
=  
=  
=]