

an enception. 3 Dummy method Release all birds ruleage (List of Birds) } List < Bixd for (Bird b in Birds) { 11 (16 instance of Pagoin) } Star = 6:18y () ( state !=null A A State = = FCYING) {
b. make sound () special handling los a child class. child as a barrent substitud ( subtybe. a special class you have to hand of

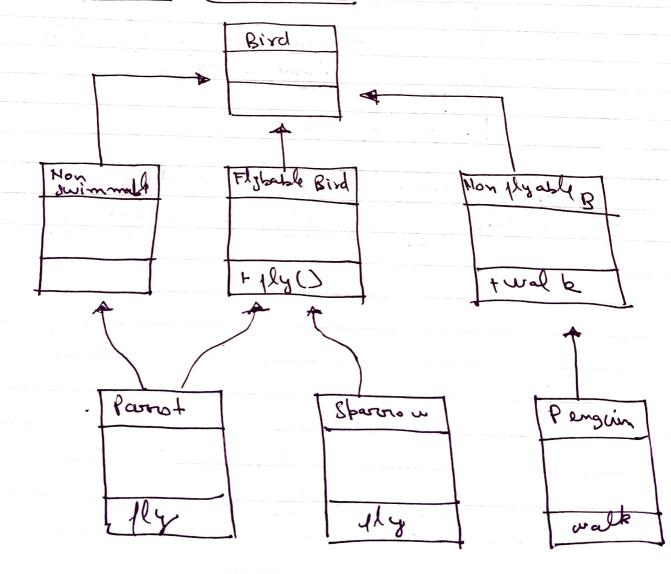
Object should be supplacable by their substybes

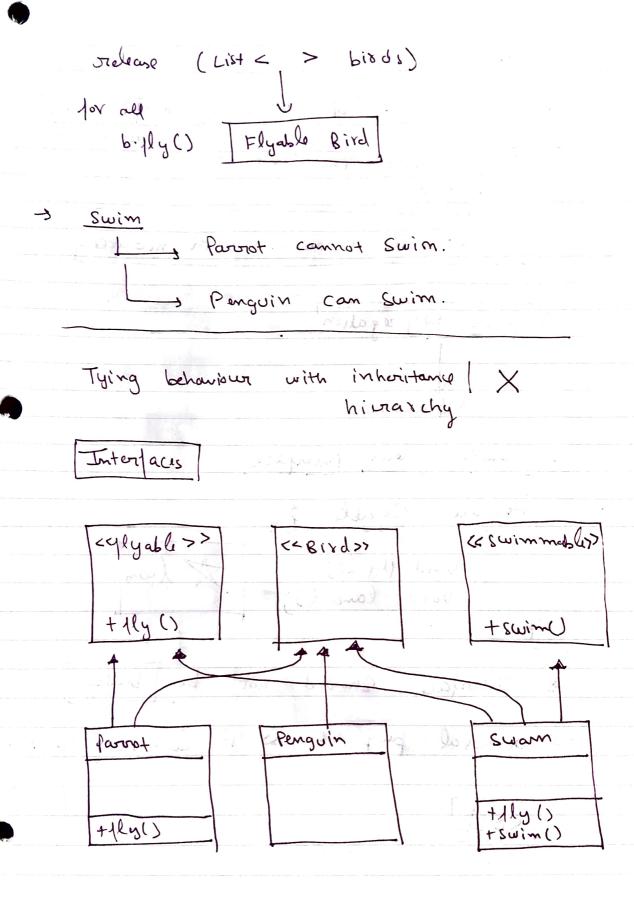
Without altering the coorectness of the program

-> How can we fix LSP?

1 Default implement fly.

2) Multilevel inheritance



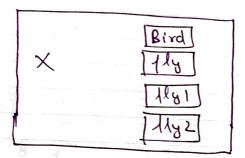


a Replacable with subtypes.
(2) To check -> Special cases, encept some behaviour.
3 Perfer using intorfaces to abstract.
Do not til behaviour with history
Interface sogregation.
Separate.
-> creating lean interfaces
interface plyable {
Void fly (); A leam Void land ();
-s Interface should not be bulky
I Granoral purpose so it can be so used
SOLD

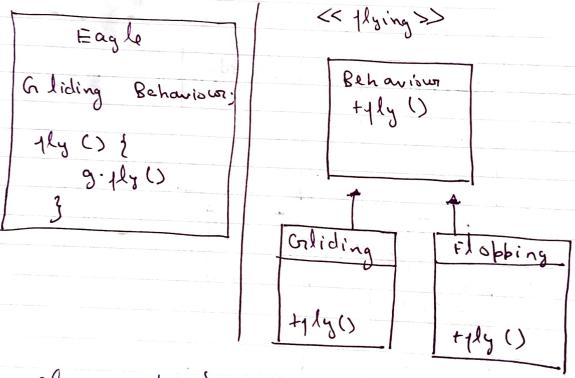
Dependency Inversion A B new A( new B()) class Pigeon entends Bird implements Flycholi < g ird> Flyuble Pigeon Sparrow 144() 189()

## Solutions

1) Default imp - tland to decide default.



2 Utility method



class Edge }

Depondency invorsion.			
Sparrow	classes	should not depend on other concrete classes	
5,000			
La Depend on	(	soliding Behaviour	
abst y actions			
( barting &		, cl	
Flying Behaviour	To Language	-1.45	
loose coupling			
code Unit			
SRP -> One class	one :	ries bonsibility.	
Ocp -> closed to	modif entens	ications.	
LSP > Do not On Ch  -3 If Subty Should	enloved ind bing wox	desses all behaviour	
Isp -> lean in			
DIP -3 concrete de intorpaces.	۹۶۶۵ ۶ مرملس	should spend on than each other.	

Inhoritance is not dynamic. composite is dynamic A · matrod () class A { Class x } method () Static method () } (A) · method () new All method () class Manager of class quary } Db db; Static create q mecute () } db. enecute (Qu.cq())