Array → Size fix

↳ collection of

[Similar DT

Collection

↓ Multitype DT values

int[ ] arr = new int[5];

[10, 45.7, true, 'a', "sti"]

remove → array size

→ No fixed size

changable in nature

- Objects → classes
- Primitive Data → Byte, Short, int = 10, long = 23.5, float, double, char, boolean

↳ Single value

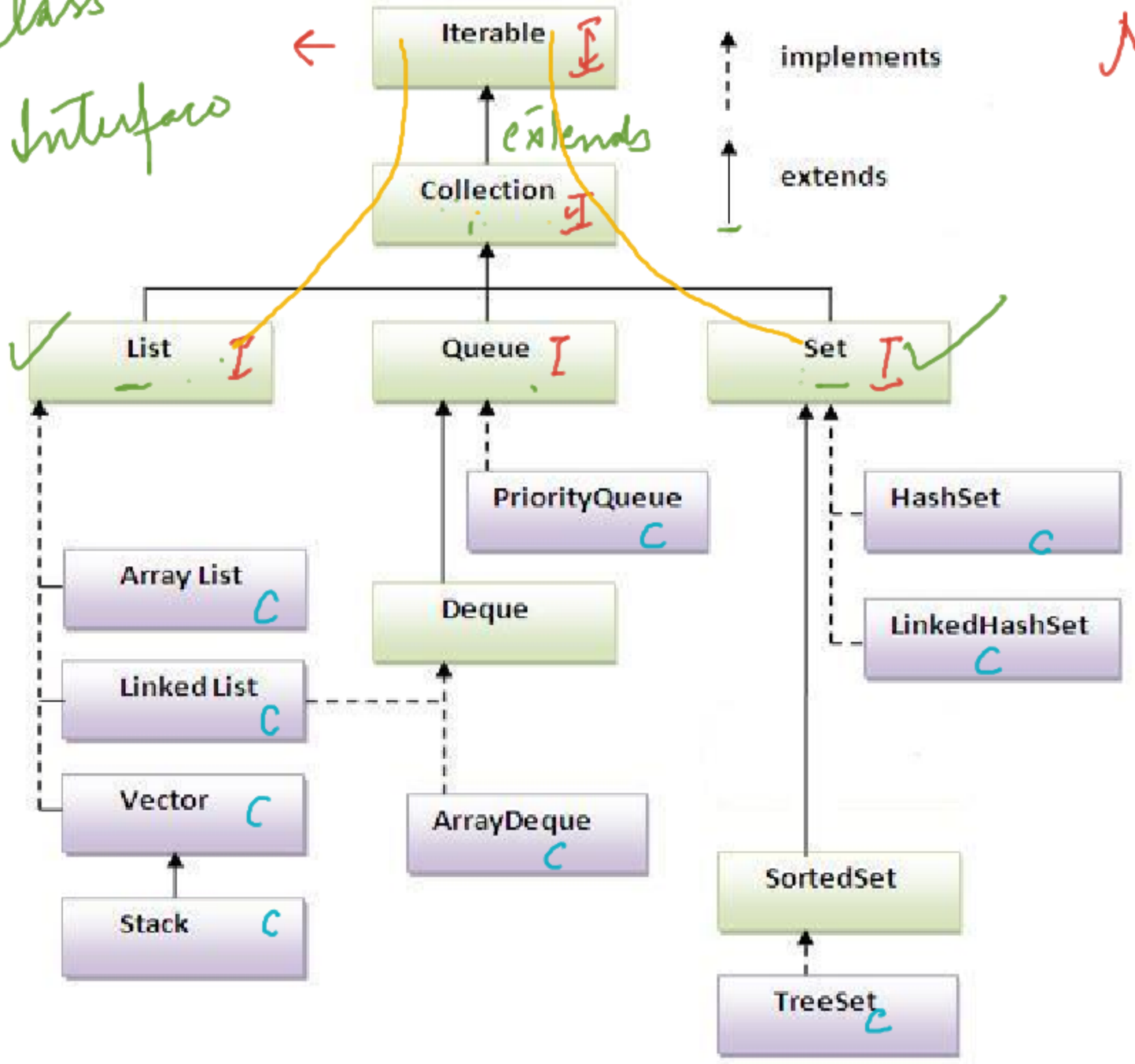
collection → concept / framework

Collection → Interface

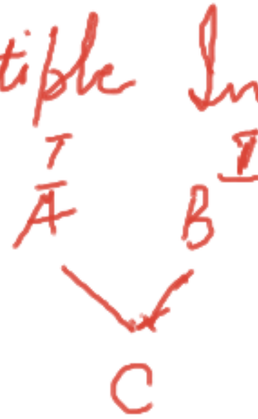
Collections → class

Throwable → class

Iterable → Interface



Multiple Inheritance



C extends C

List :- (1) Ordered in nature

(2) Duplicate elements can be stored

100 elements → 1 2 3 4 5 6 7 8 8 5 7

↓

I

↓

Parent → Collection

↓

Parent

↓

Iterable

```
interface I1 {

    public void m1();

           m2();


}
```

1.8

→ default

→ static

Type → Integer

obj1 → obj2 → obj3

Collection → can store objects

object {10, 20, 30} int X

P.D.T → 10 → 1 byte - 8 bits → Wrapper classes → N.P.D → Wrapper classes → P.D

byte → Byte

short → Short

int → Integer

long → Long

float → Float

double → Double

P.D → classes

char - Character

boolean - Boolean

(I) Collections → Methods declare
↓ add() No Def.
(I) list ← remov
↓
Arraylist class. implements
list

public void add( ) {

}

add
addAll
remove
get
size

Now
Static

List Interface

add();

=

Class ArrayList implements List

public void add() {

3

Custom class

List. add();

X

ArrayList al =

new ArrayList()

al. add(10);

method → overridden

method prop.

Parent ref var = new Child class Name() {

Class

interface

List l = new ArrayList();