

Array → size fix

↓
collection of
[similar DT

Collection → Object

Multitype DT values.

int[] arr = new int[5];

remove → array size

↑ int
[10, 45.7, true, 'a',
"str"]

✓ Objects → classes

✓ → Primitive Data →

↓
single value

byte
short
int = 10

long | 23.5

float
double

char, boolean

→ No fixed size
changeable in nature

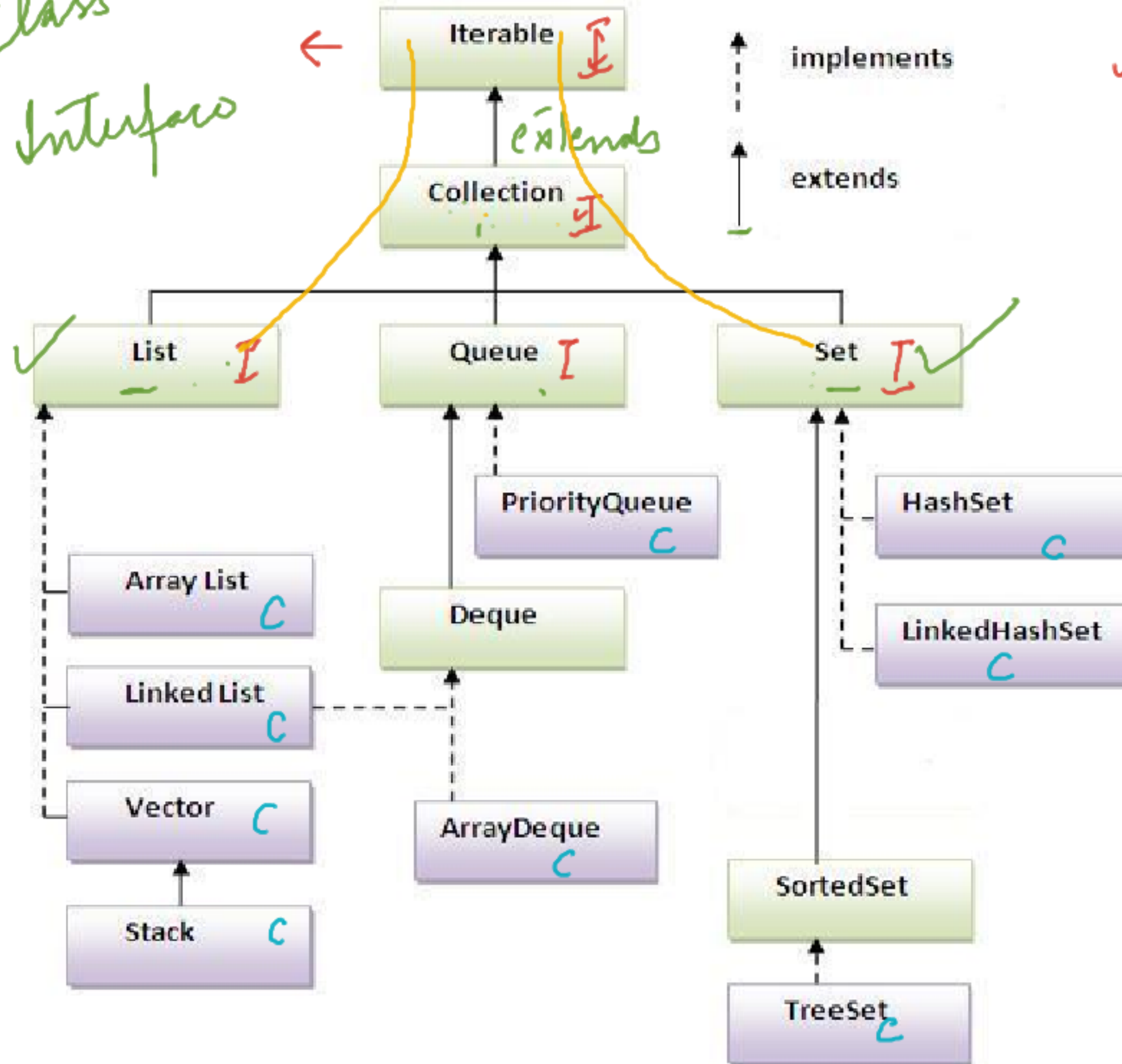
N. ? → Integer class

Collection → concept/framework

Collection → Interface

Collections → Class

Throwable → class
 Iterable → interface



Multiple Inheritance
 $\begin{matrix} \text{A}^I & \text{B}^I \\ \swarrow & \searrow \\ \text{C} \end{matrix}$

C extends C

List : (i) Ordered in nature

100 elements →

(2) Duplicate elements can be stored

↓

I

↓

Parent → Collection

↓ Parent
Iterable

1
2
3
4
5
6
7
8
8
5
7

interface I1 {

public void m1();

m2();

}

1.8

→ default

→ static

type Integer
obj1
obj2
Collection → Can store objects
object {10, 20, 30} int X

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

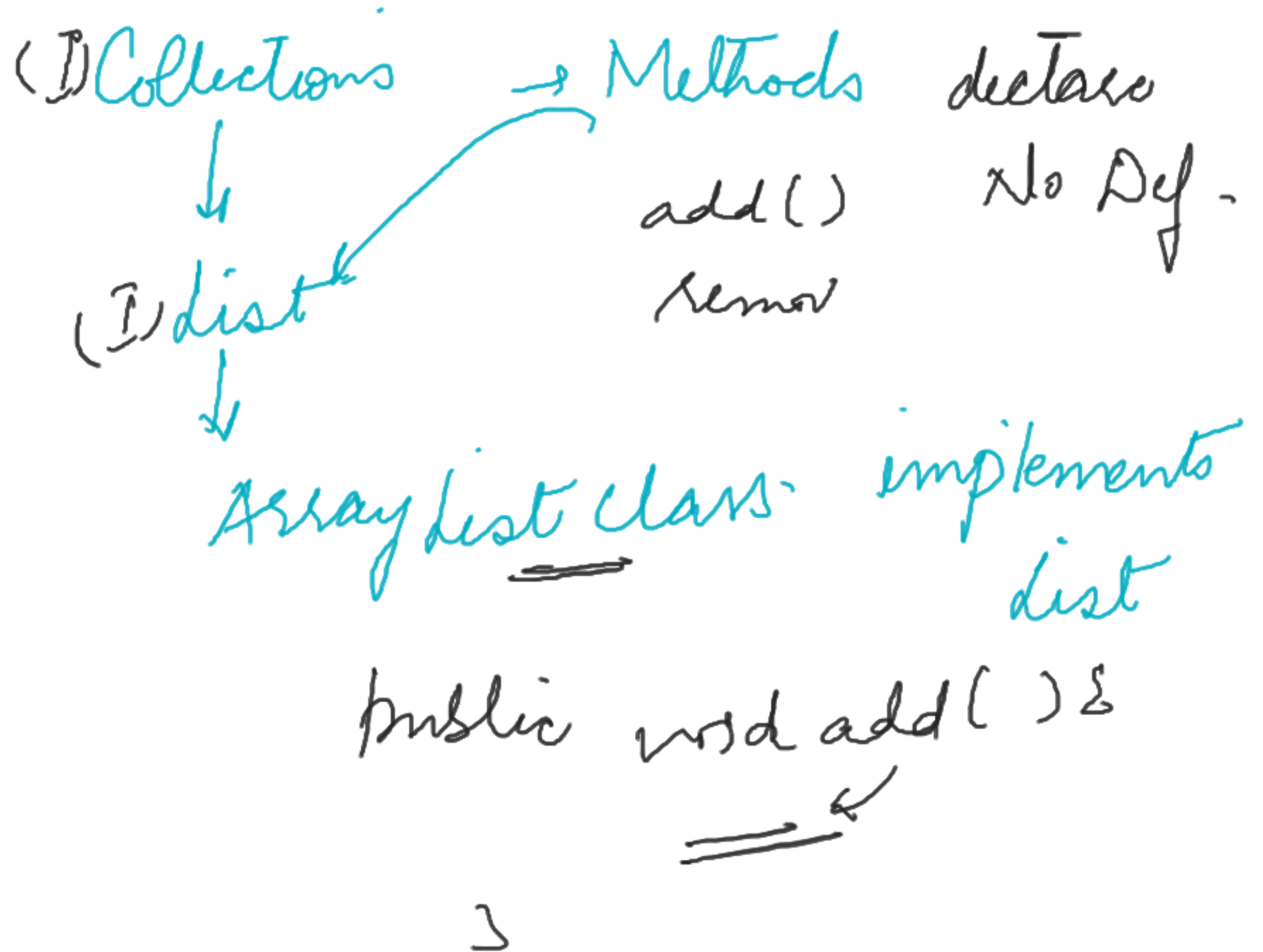
short → Short
int → Integer

long → Long
float → Float
double → Double

P.D → classes

Char - Character
boolean - Boolean

add
add All
remove
get
Size
Non
Static



ListInterface

add();

Class ArrayList
implements

public void add()

List

Custom class

List.add();

ArrayList al =
new ArrayList();
al.add(10);

List l = new ArrayList();

method
prop. → overridden

Parent ref var = new

Child class
Name();

Class
interface

Array → { 1, 3, 5^{x2}, 8^{x2}, 20, 30, 50 }



→

Iterate

Iterator → Interface

1 x 2
- 3 x 2
5
8
20
30
50

for
for each ✓



✓ for (init; cond; inc/dec) {

}

for (int x as all
Name) {

}

Iterator

Iterator → Interface



hasNext()



next()



remove() →

Linked list:

add(index, val)

addFirst()

addLast()

removeFirst()

removeLast()

