

Inbuilt Functions

- Wrapper Classes
- ArrayLists
- String Builder

Types in Java

Primitive type
(int, double, boolean,
char, float, long,
short, byte)

values are primitive.

int a = 10

Reference type
(everything non-primitive)
String, Arrays, int[], char[]
Point, Student

values are objects.

Wrapper Classes:

Primitive Data Type

int
double
char
boolean
long

Wrapper Class

Integer
Double
Character
Boolean
Long

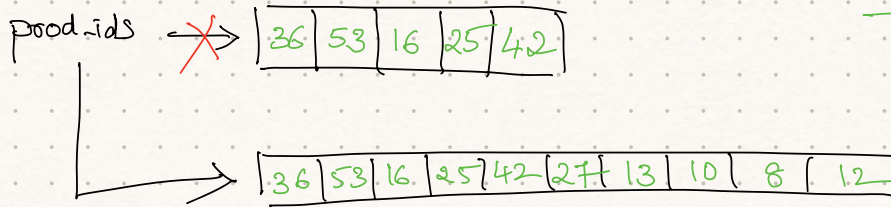
e.g. Math.sqrt
Integer i = Integer.valueOf(10)
Integer i = 10; autoboxing
int i = 10

$\boxed{5.3}$ $\boxed{10}$
object object
Double d = 5.3;

ArrayLists

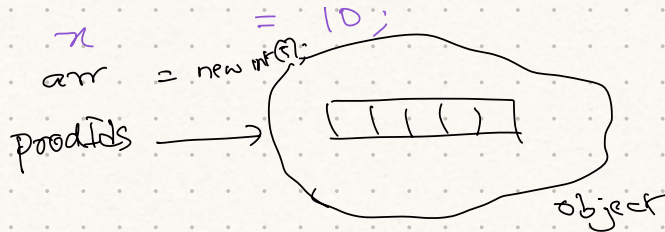
implements 'Dynamic Arrays'

int[]



ArrayList<Integer> ^{Reference Type} prodIds = new ArrayList<>();
_{Type} _{var name} = new ArrayList<Integer>();

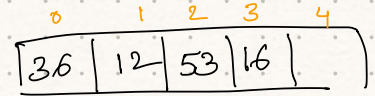
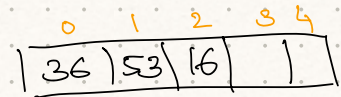
int
int[]



1. add method

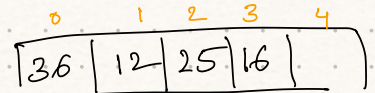
prodIds.add(36);
prodIds.add(53);
prodIds.add(16);
prodIds.add(1, 12);

position (index) ↑ value to be inserted ↑



2. Set method

prodIds.set(2, 25)

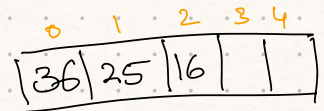


3. get method

s.o.p(prodIds.get(3)); // 16

4. remove method

prodIds.remove(1);



5. size method (returns the number of elements)

s.o.p (prodIds.size()) // 3