

Array

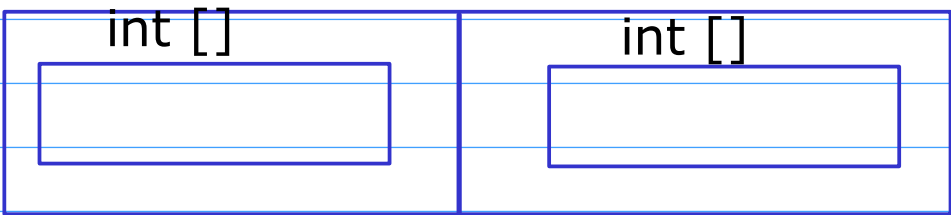
int arr[]; // reference
new int[5];
arr[0]-> value

Employee [] arr = new Employee[5];

arr[0] -> employee reference

MultiDimensional Array

int arr[2][3]



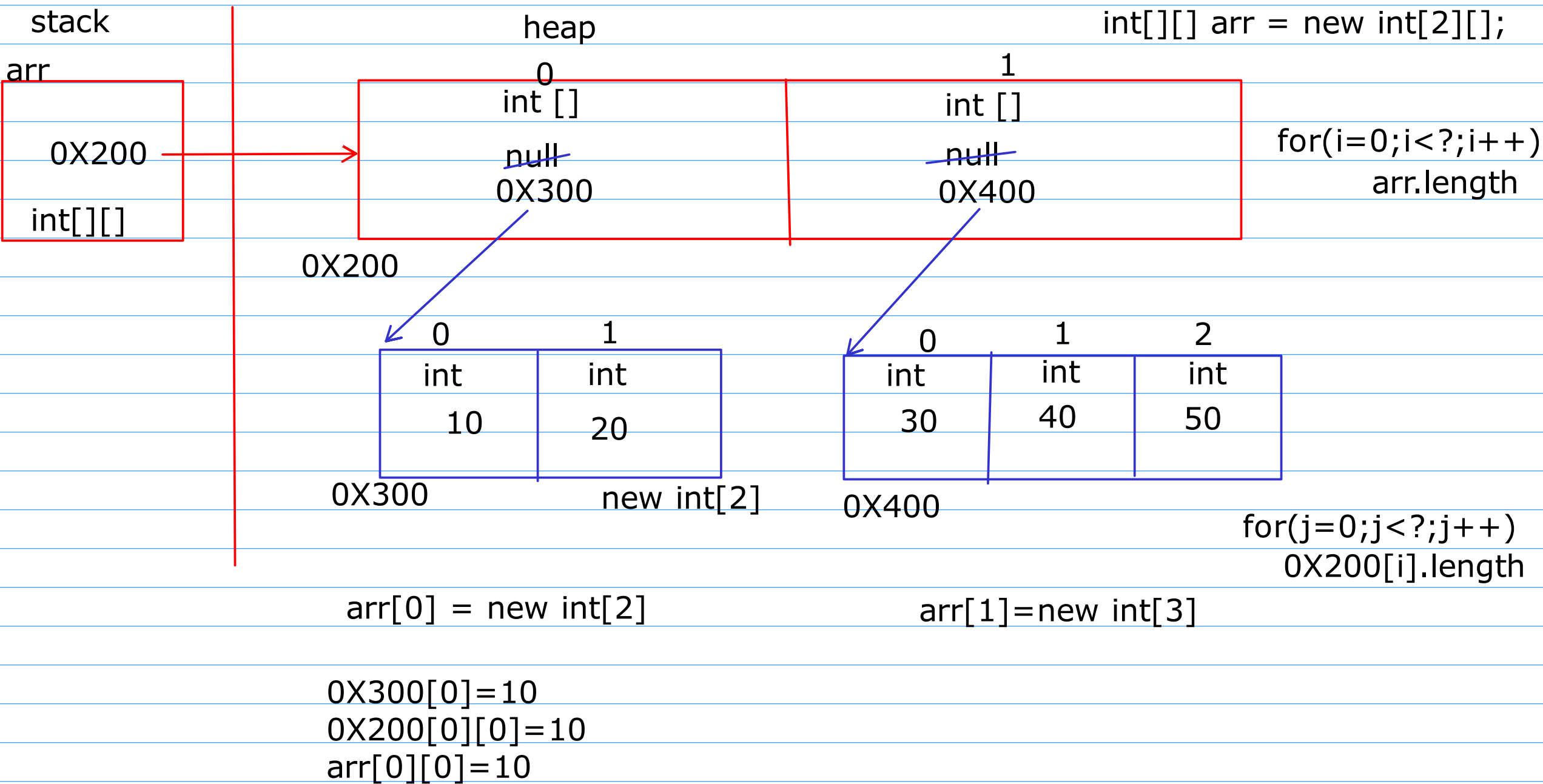
int arr[][] = new int[2][3];

↑

array of references (int[])

#Ragged Arrayx

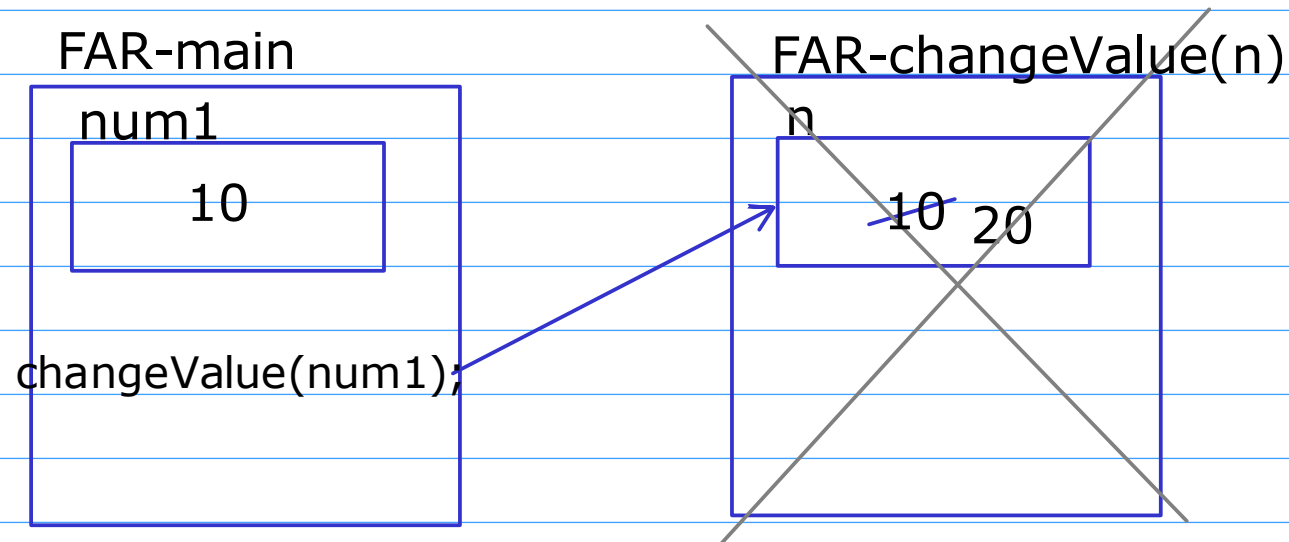
- It is a multi dimensional array where the size of the inner arrays are different



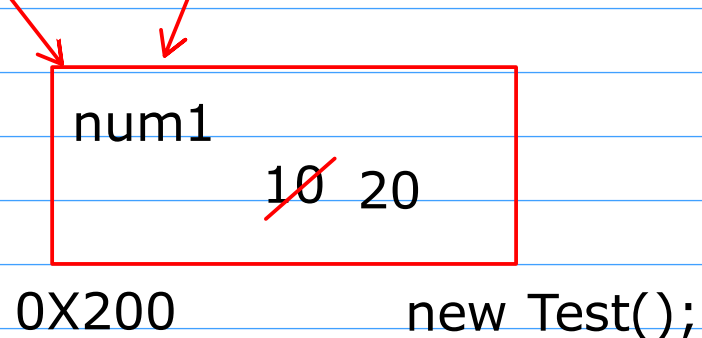
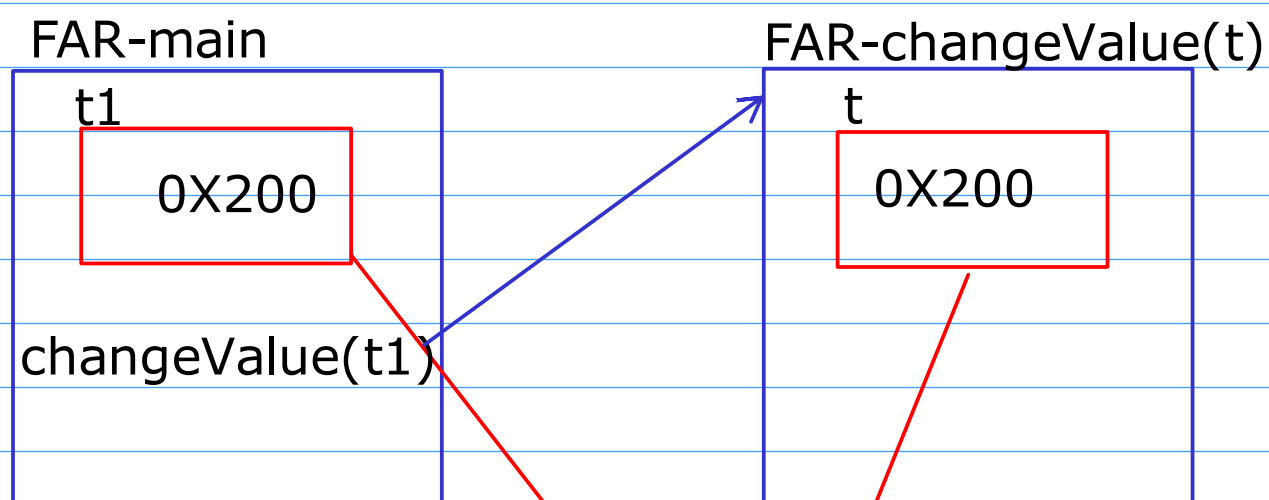
Modular batch -> java(100),dsa(150),genai(200)

Student[][] studentList = new Student[n][];
studentList[0] -> new Student[2]; // java
studentList[1] -> new Student[5]; // dsa
studentList[2] -> new Student[3]; // gen ai

Stack



stack



Heap

1. field Initializer
2. Object Initializer
3. Ctor

Rules

- Field- Object initializer-> ctor

#Final

- in java we can declared

- Variable

- We can declare the local variables as final.
- These final variables once initialized we cannot change the value inside it (cannot be assigned)
- however in java we can declare the variable as final and then later we can initialize it as per the requirement

- Field

- We can declare the field as final
- These fields needs to be initialized in the Field initializer or the object initializer or ctor.

- Method

- Class

- (method and class as final will see after inheritance)

class Circle{

double PI = 3.14

}

class DbUtil{
Connection connection;
PreparedStatement
{
Sql
connection =
}

}

class BankAccount{
int accno;
String name;
double balance;

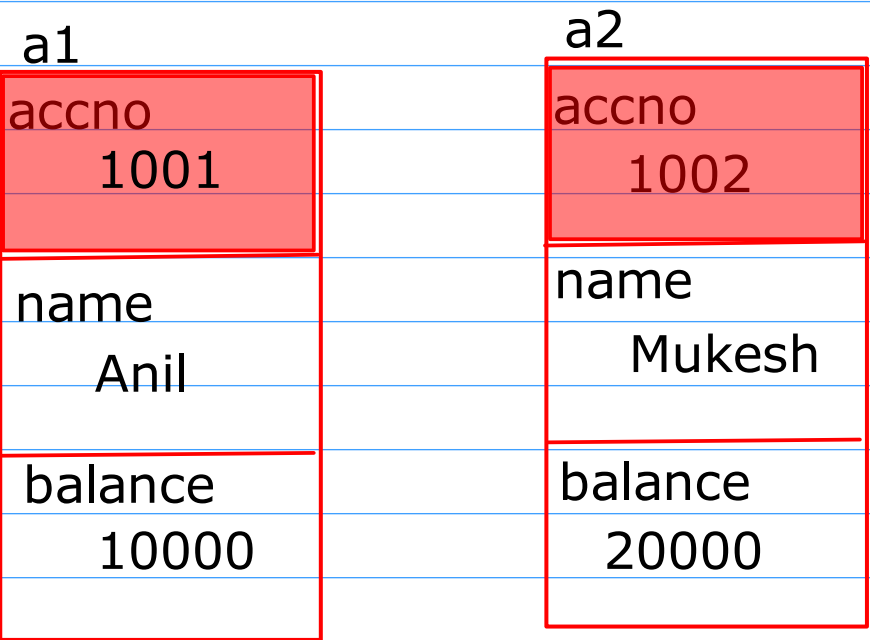
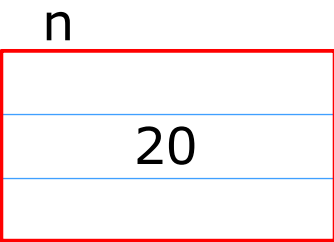
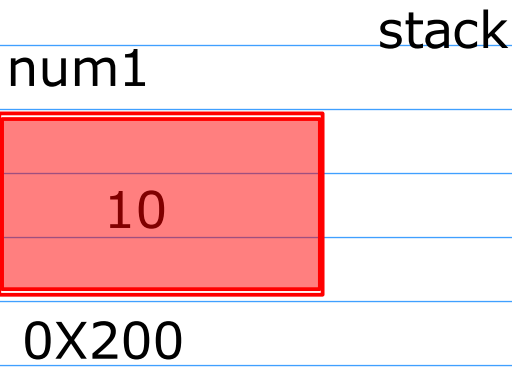
{
accno = logic to increment automatically
}

BankAccount(String name,double balance)
}

public void method(){
final int num1=10;
}

changeValue(int n){

}



a1.accno = 1003;
a1.balance - 15000;

constant -> final -> immutable