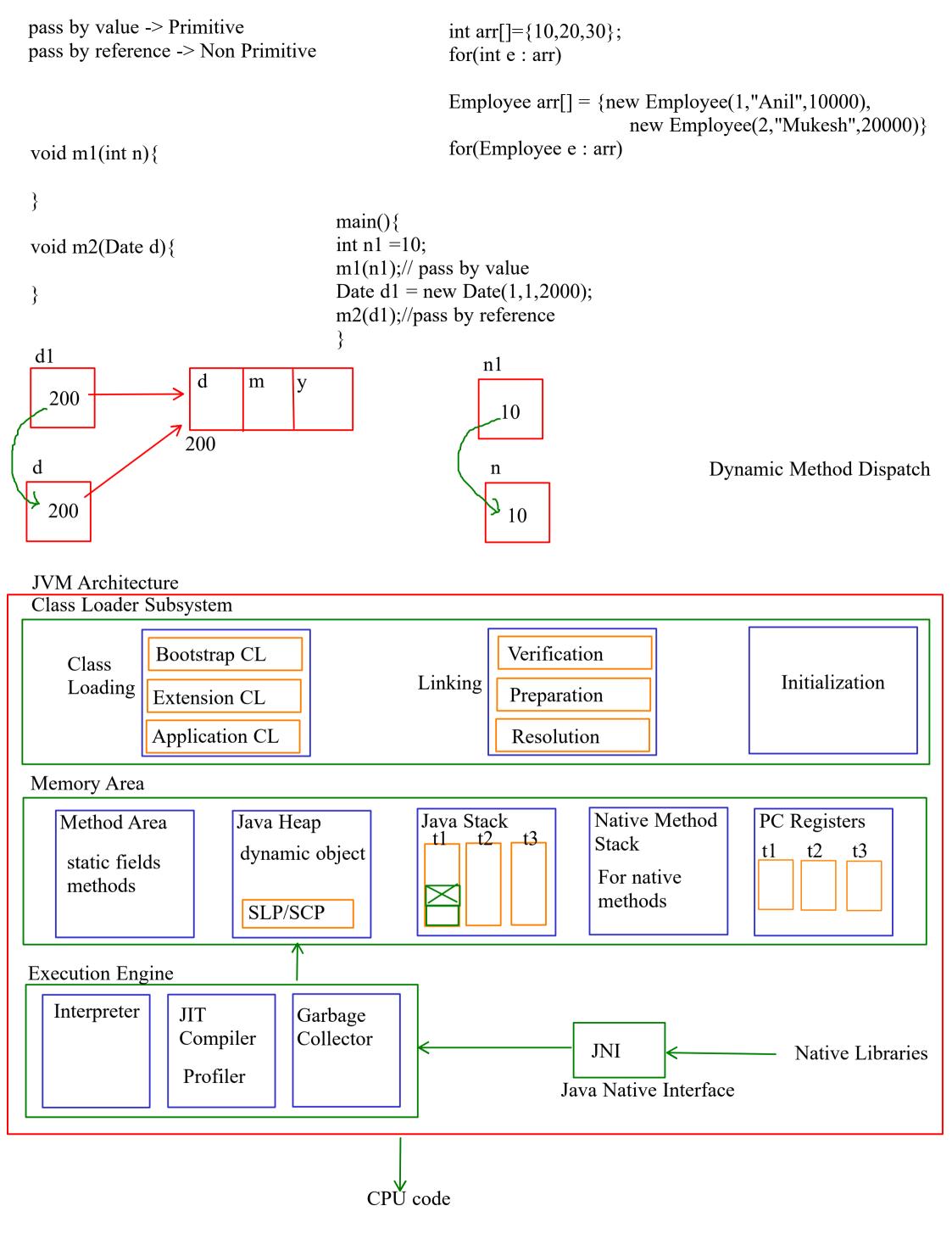
## Hirerachy - has-a (Association) (Composition, Aggegration) - is-a (Inheritance) Employee is-a Person eg- Employee has-a Date //Dependancy class class Person{ class Date{ void accept(){ } super() //Dependent class Employee extends Person{ class Employee{ @Override Date doj; // Association void accept(){ super.accept() class Student extends Person{ } Person p; // reference p = new Employee() p = new Student(); if(p instanceof Employee) Employee e = (Employee) p; // Downcasting p.accept(); #Object class - Super/root class of all the class hirerachy in java Date d1 = new Date(); stack heap Date d2 = d1; d1 day month year .200 0 0 0 if(d1==d2)Date 200 new Date(); d2× 200 stack heap d1 day month year 200-0 0 0 d1 == d2Date new Date(); 200 d2day month year 300 0 0 0

new Date();

300

Revison



```
dl = new Date();
}

public static void main(){
m1();
}

Heap

Young Generation

Old Generation

5

5
```

public static void main(){

Date d1 = new Date(); // GC

static void m1(){

Date d1 = new Date(); // GC

Garbage Collection

Minor GC

public static void main(){

Date d1 = new Date(); // GC

Major GC

Mark and Compact Algorithm

System.gc();

Runtime.getRuntime().gc();