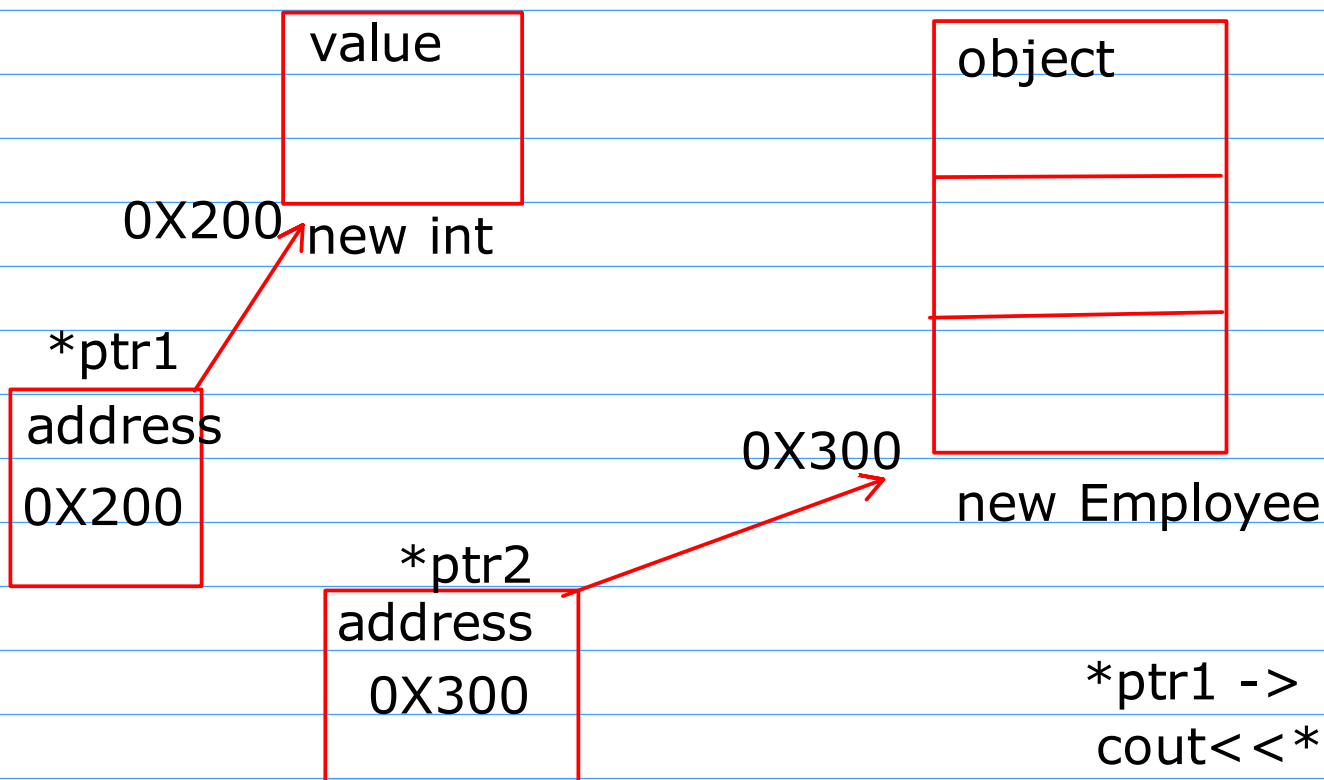


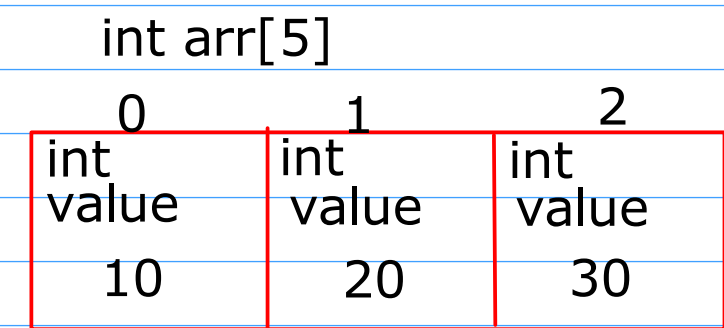
static -> Sharing      \*ptr=new int[5]  
delete[] ptr

int\*                                  int \*ptr1=new int;  
Employee\*                              int \*ptr2=new Employee



`*ptr1 -> *0X200`  
`cout<<*ptr1`

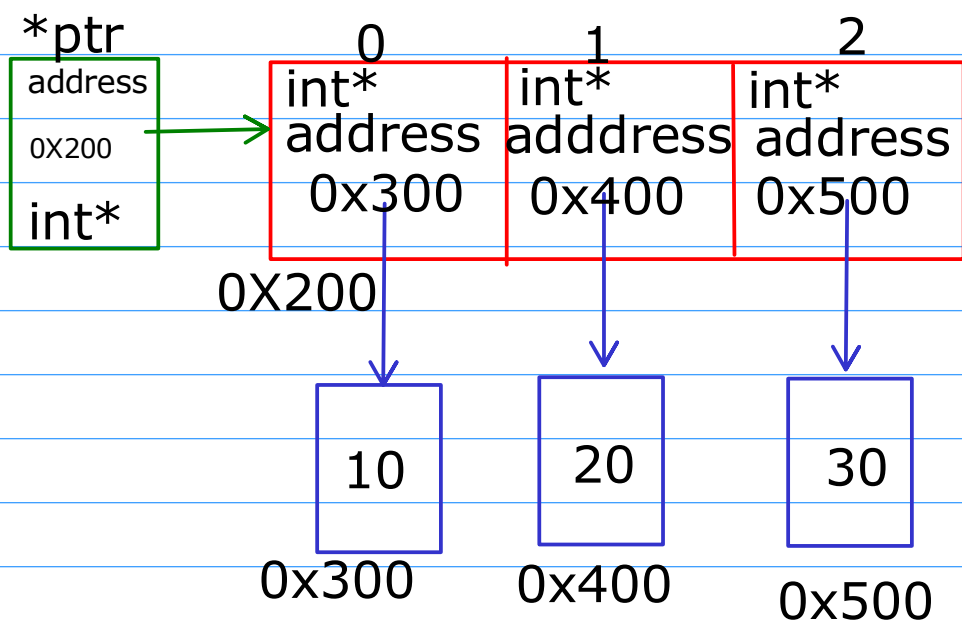
`ptr2 -> 0X300`  
`ptr2->name`



`arr[0] -> 10`

`arr`

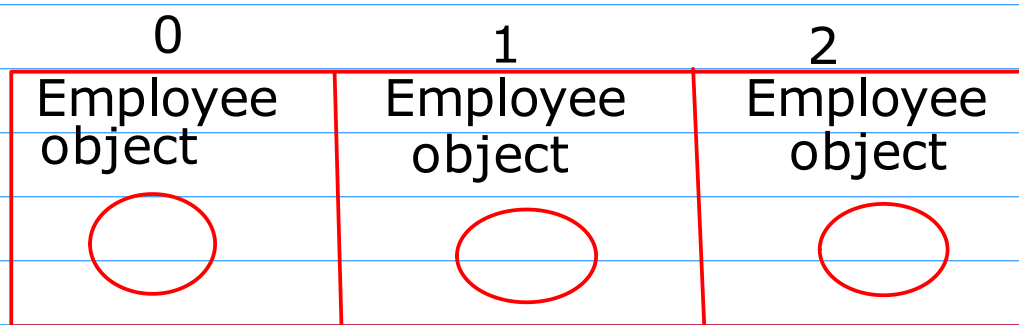
`int* arr[5]`



`*arr[0] -> *0X300`

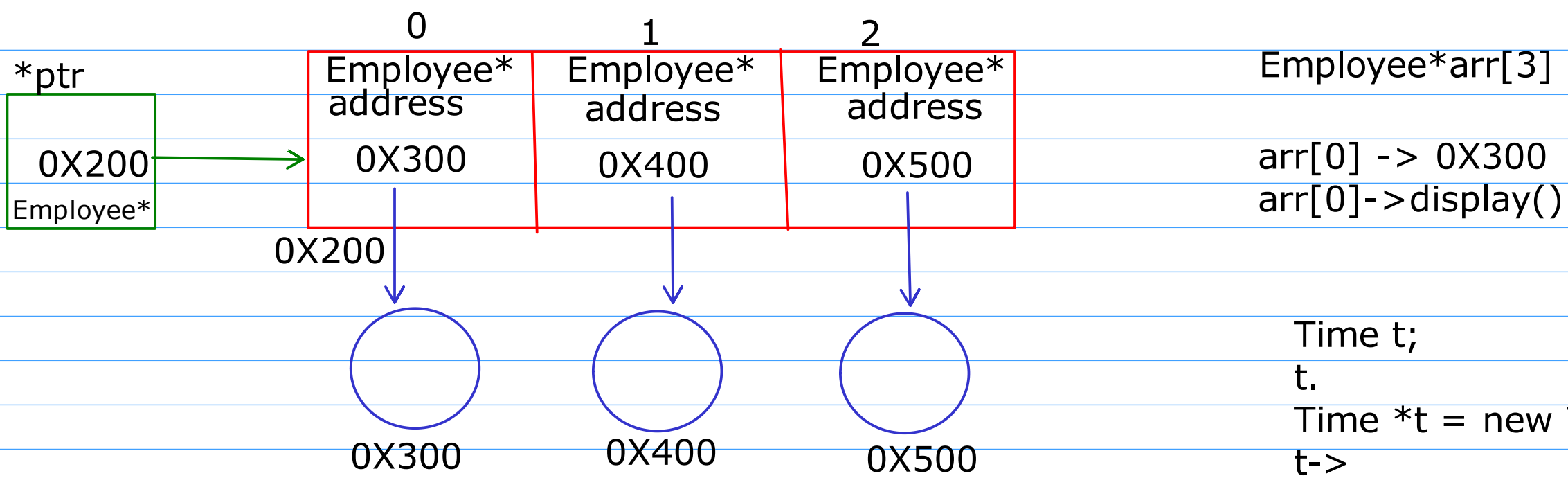
`cout<<0X300; -> 10`  
`cout<<0X200[0] -> 0X300`  
`cout<<*0X200[0]->10`  
`cout<<*ptr[0]->10`

`Employee arr[3];`  
`Employee* arr[3];`  
`new Employee[3];`  
`new Employee*[3];`



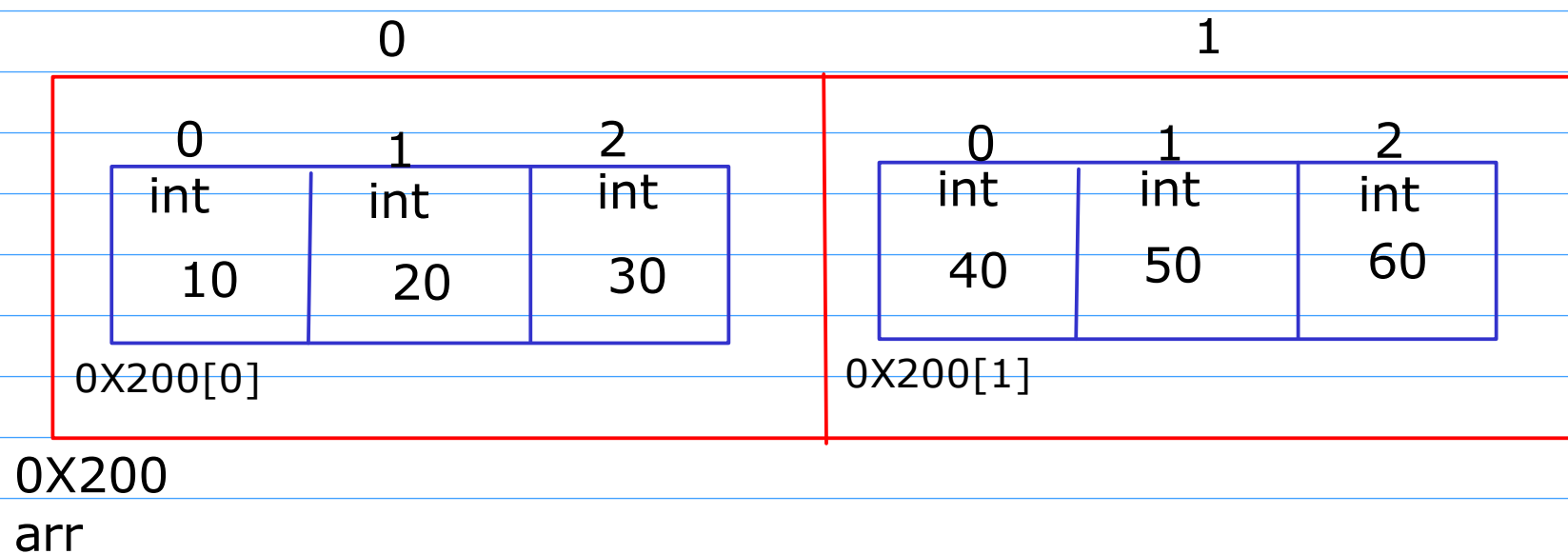
`arr`

`arr[0].display()`



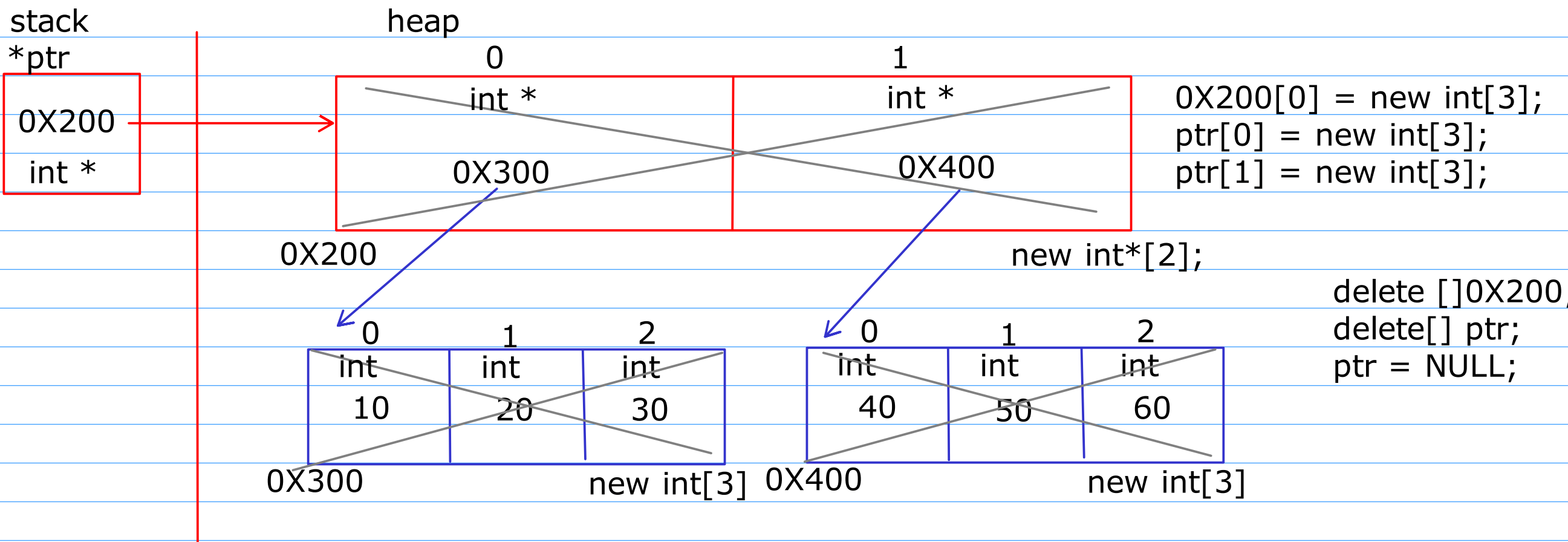
`0X200[0]->display()`  
`ptr[0]->display();`

Multidimensional Array  
`int arr[2][3];`



<code>0X200[0][0] = 10;</code>	<code>0X200[1][0] = 40;</code>
<code>arr[0][0] = 10;</code>	<code>arr[1][0] = 40;</code>
<code>arr[0][1] = 20;</code>	<code>arr[1][1] = 50;</code>
<code>arr[0][2] = 30;</code>	<code>arr[1][2] = 60;</code>

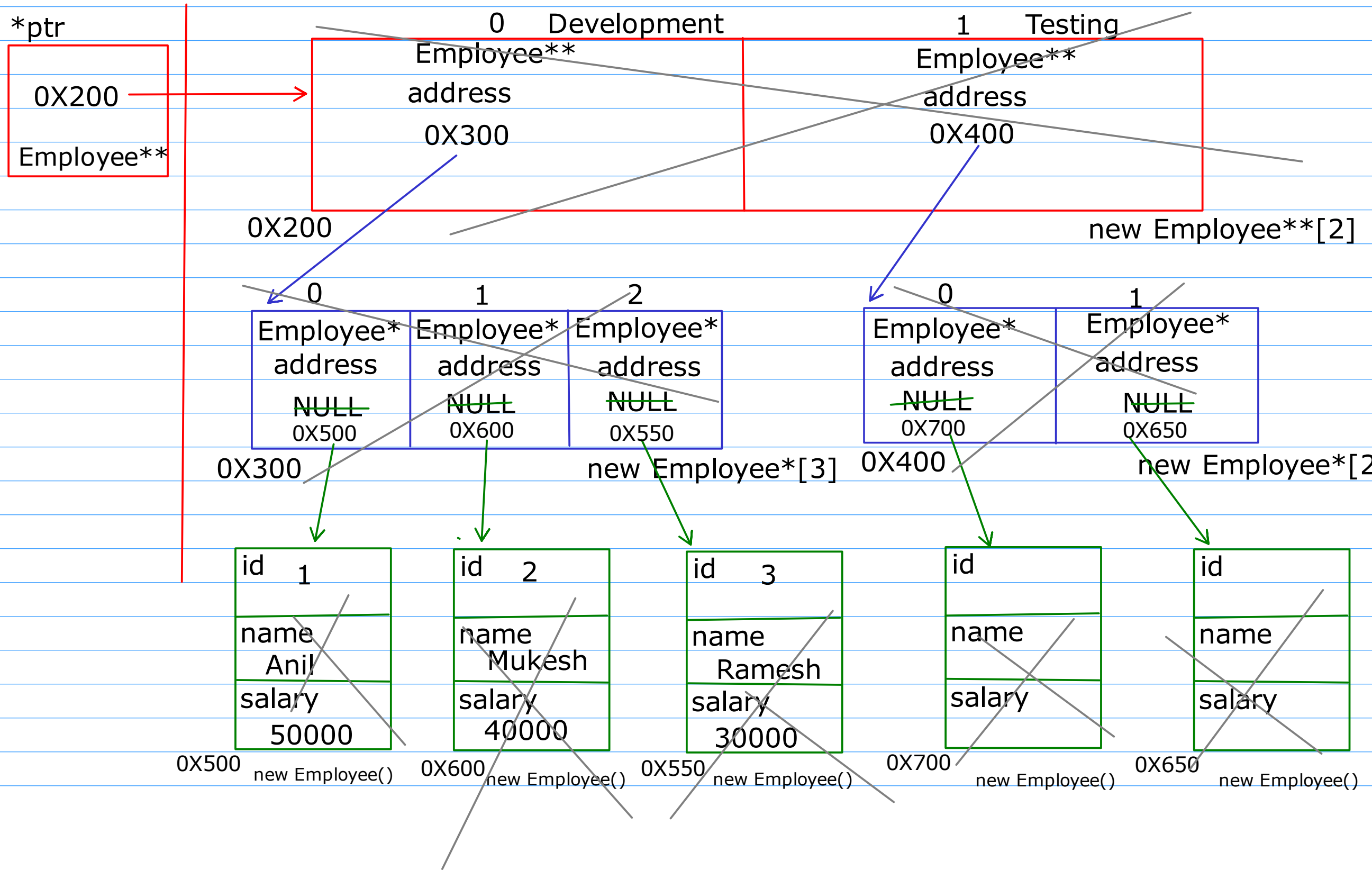
```
for(int i=0;i<2;i++){
    for(int j =0; j<3;j++){
        cout<<"Element = "<<arr[i][j]<<endl;
    }
}
```



delete []0X300;  
delete[]0X200[0];  
delete[] ptr[0];  
ptr[0] = NULL;

0X300[0] = 10  
0X200[0][0]=10  
ptr[0][0] = 10;

Departments  
Dev -> 3  
Test -> 2



0X300[0] = new Employee(1,"Anil",50000);	0X400[0]=new Employee(4,"Suresh",20000);
0X200[0][1]=new Employee(2,"Mukesh",40000);	0X200[1][0]=new Employee(4,"Suresh",20000);
ptr[0][2]=new Employee(3,"Ramesh",30000);	ptr[1][0]=new Employee(4,"Suresh",20000);
	ptr[1][1]=new Employee(5,"Ram",10000);

Students	
DAC(240), KDAC(120)	
new Student**[6]	OOP
new Student*[240]	Major
new Student*[120]	1. Abstraction
new Student*[120]	2. Encapsulation
new Student*[60]	3. Modularity
new Student*[120]	4. Hirerachy
new Student*[60]	Minor
	1. Polymorphism
	- compiletime
	- runtime
	2. Persistance
	3. Concurrency

Hirerachy

- It represents reusability
- In hirerachy the reusing of classes depends on the type of relationship that the entities form
- Their are two type of relationship
  1. has-a relationship represents Association
  2. is-a relationship represents Inheritance

association (has-a)	Association can be further classified into two types
Human has-a Heart	1. Composition
Car has-a Engine	- It represents tight coupling between
Room has-a Window	Dependent and Dependency Object
	2. Aggegration
Employee has-a doj	- It represents loose coupling between
	Dependent and Dependency Object
Dependent Object	
- Human,Car,Room,Employee, Customer	
Dependency	
- Heart,Engine,Window,Date,DateOfBirth	

When we want to have multiple objects of dependency class inside dependent class we should use Association

classs Employee{ Date doj; Date dol; Date dob; }	class Product{ Date md; Date ed; Date od; Date dd; }	class Date{ day,month,year  }
--	---	--