

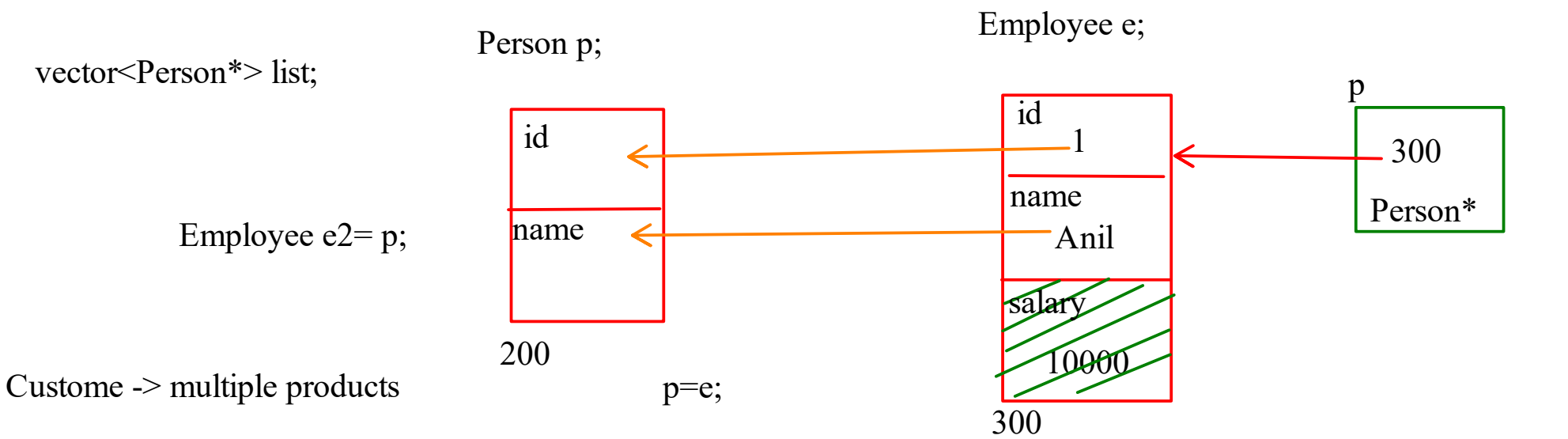
STL - Standard Template Library

- 1. Containers
- 2. Algorithms
- 3. Function Objects
- 4. Iterators

- 1. Sequence Containers
 - 2. Associate Containers
 - 3. Sequence Container Adapters
- vector

map

stack,queue



```
class Person{
name
}

class Customer : public Person{
mobile
vector<Product> productList;

addProduct(){
for()
    Product *p = new Product();
    p->accept();
    productList.push_back(p);
}

vector<Product*>& getProductList(){
    return productList;
}
}
```

```
class Product{
id=1,
pname,
price
}

vector<Customer*> customerList;
Customer *c;
for(){
    c = customerList[i];
    if(mobile == customerList[i]->getMobile())
        customerList[i]->addProduct();

    Product *p = new Product();
    p->accept();
    customerList[i]->getProductList().push_back(p);
}
```

```
vector<Product> products;
```

```
int find(vector<Person*>& list, int flag){
for(int i;<list.size;i++)
    if(flag == 0) // student
        if(typeid(*list[i])==typeid(Student))
            if(id==list[i]->getId())
                return i;
    elseif(flag ==1) // employee
        if(typeid(*list[i])==typeid(Employee))
            if(id==list[i]->getId())
                return i;

return -1;
}
```

```
case 5:
int index = find(personList,1);
break;
case 6:
int index = find(personList,0);
```

1 , 2

3, 4

m1

+

5, 6

7, 8

m2

m1+m2

+

-

<<

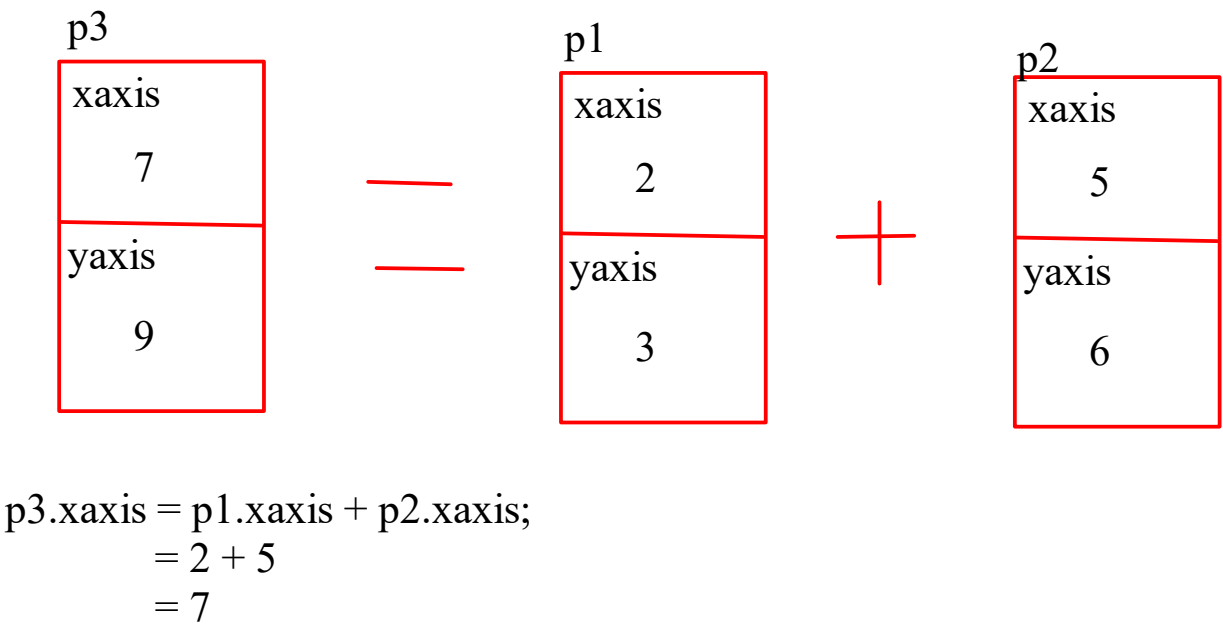
>>

=

[]

()

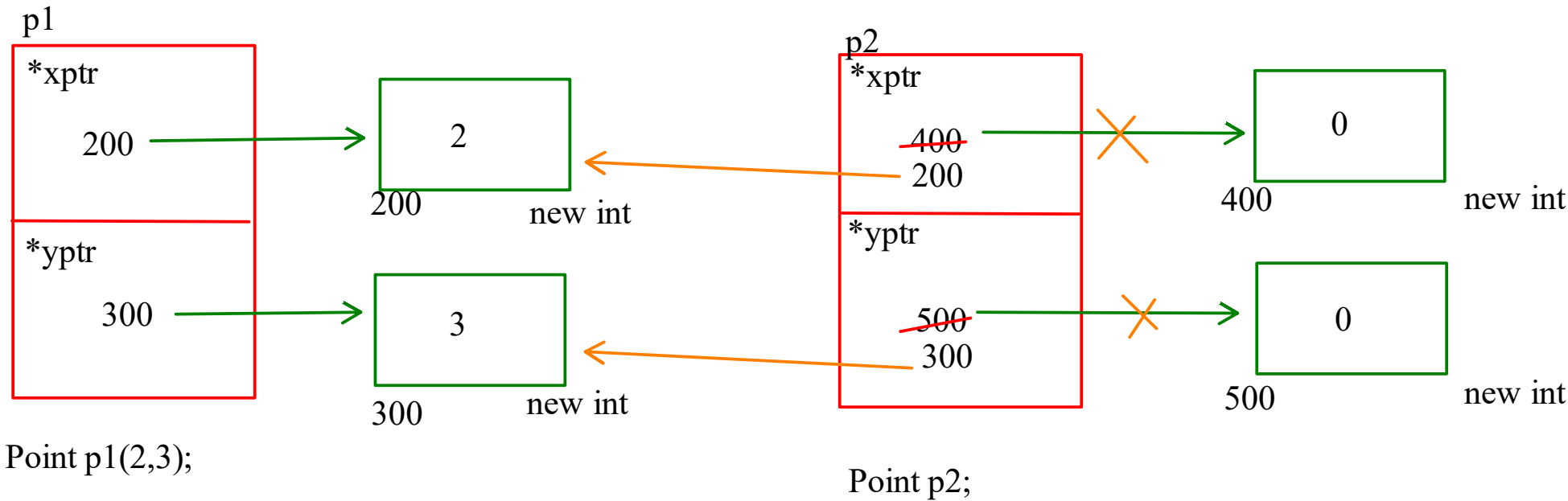
->

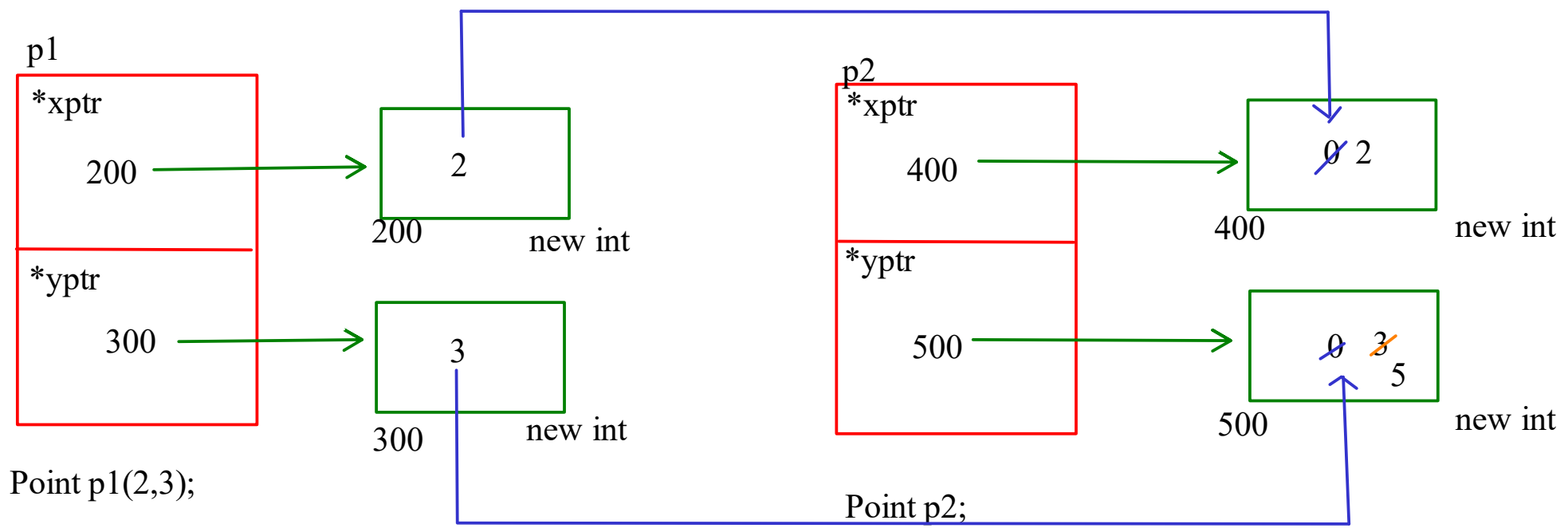


>

Point p1(2,4);
Point p2 = (2,4);// copy ctor

Point p1(2,4);
Point p2; // parameterless
p2 = p1; // Assignment operator function





Point p1(2,3);

p2 = p1;

*p2.xptr = *p1.xptr;

*p2.yptr = *p1.yptr;