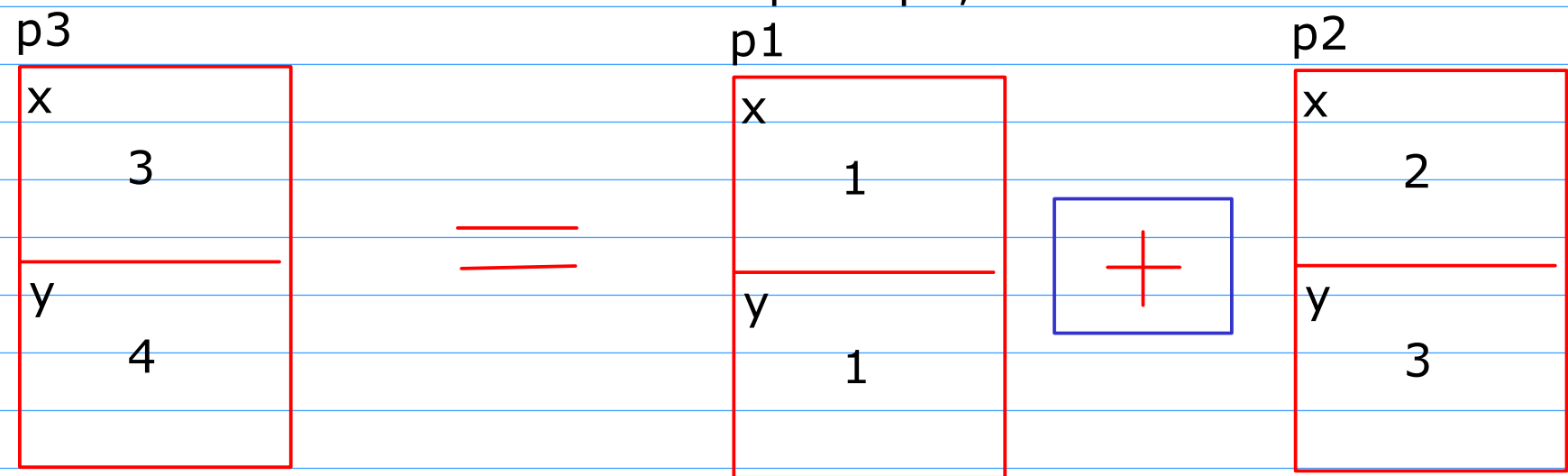


Operator Overloading

10+20 -> Addition
sunbeam + infotech -> concatenation
Point p1;
Point p2;
p1 + p2;



```
p3.x = p1.x + p2.x;  
p3.y = p1.y + p2.y;
```

itr++ (int)

Conversion function
- A function that converts one type of value into totally different type of value is called as a conversion function

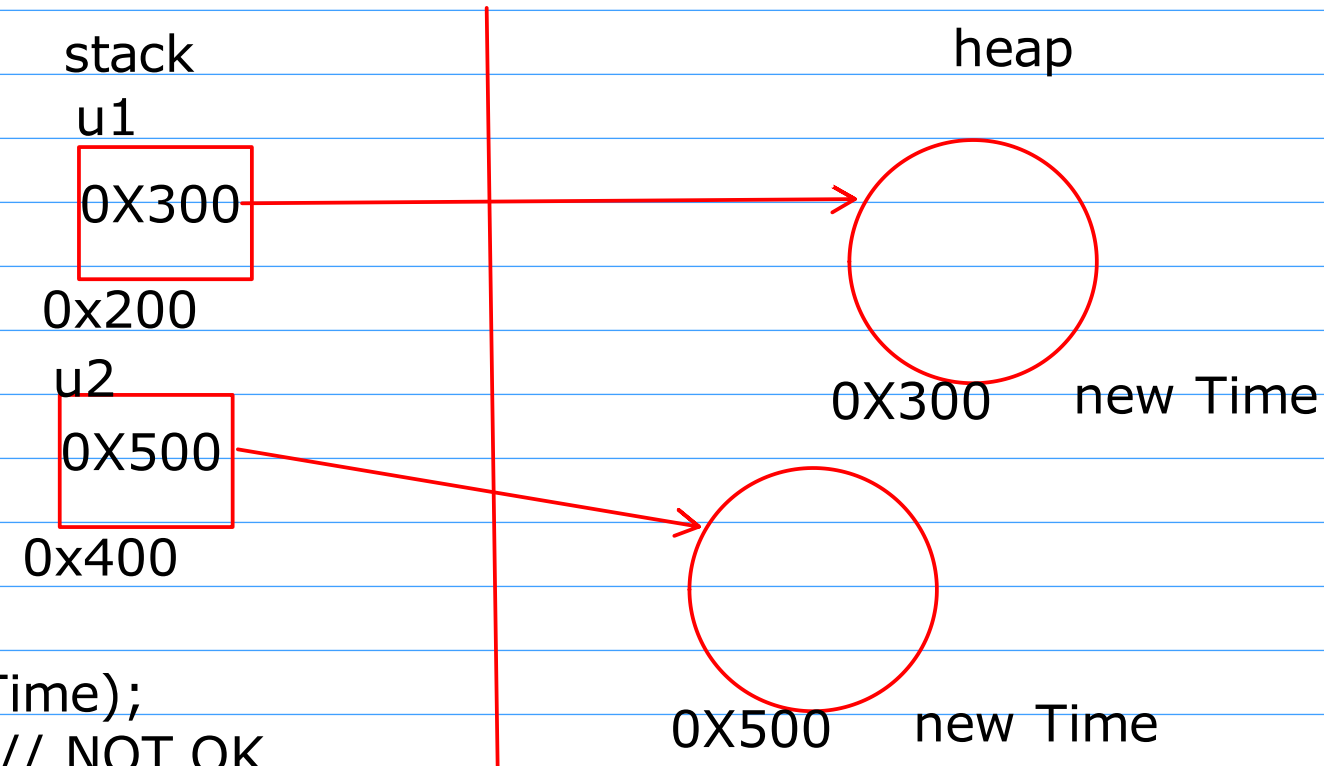
```
stoi("1") -> 1  
stod("1000.0") -> 1000.0
```

```
Time arr[5];  
Time t;  
t.accept();  
arr[0] = t;
```

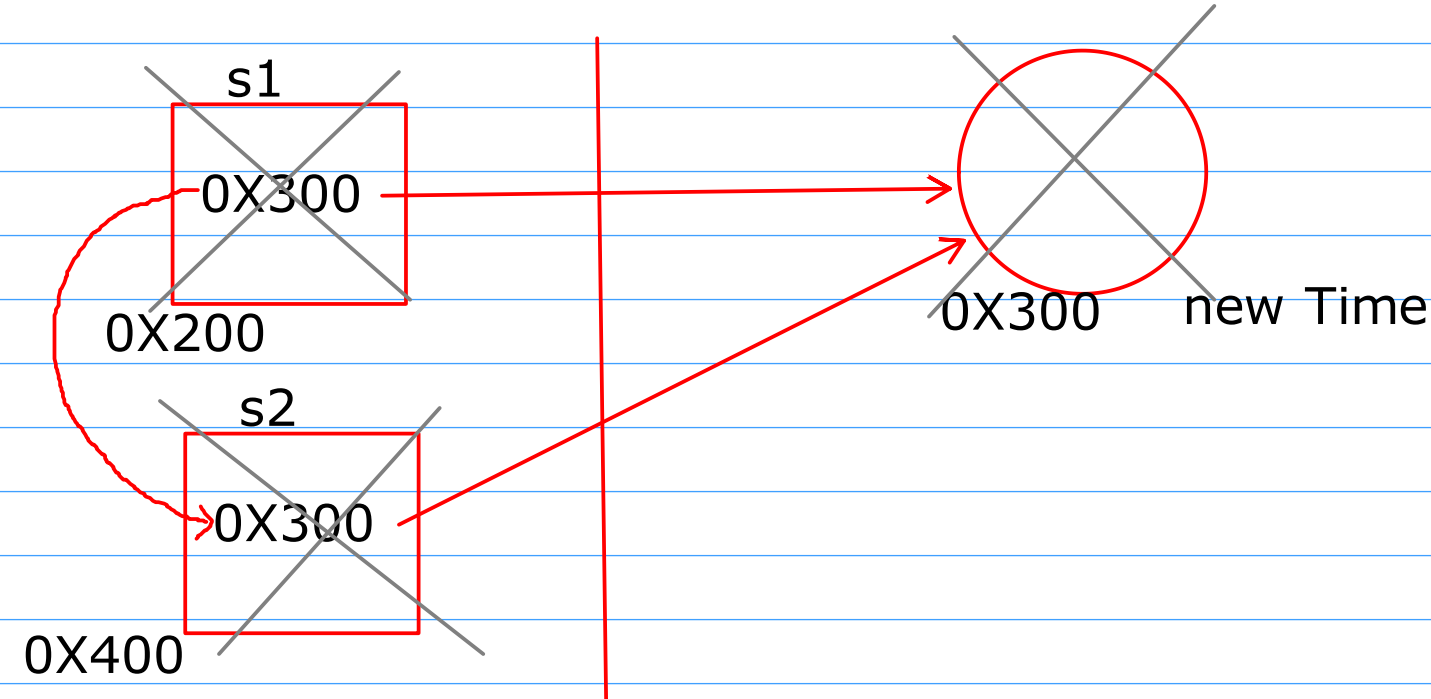
parseInt()
Integer i1 = 10; // Auto-Boxing
Time t1 = 120; // conversion function

```
Employee.h  
  
{  
  
void addition() noexcept  
}
```

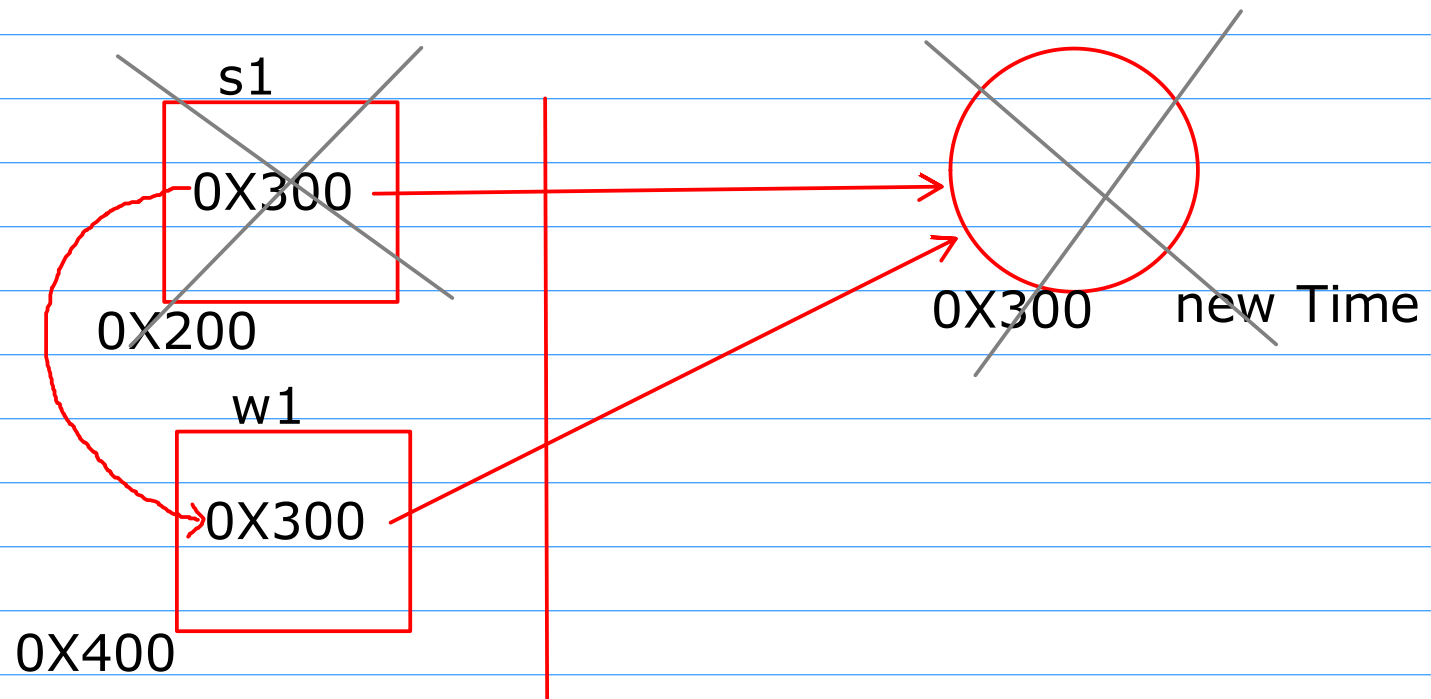
Smart Pointers
unique_ptr
shared_ptr
weak_ptr



```
unique_ptr<Time> u1(new Time);  
unique_ptr<Time> u2 = u1; // NOT OK  
unique_ptr<Time> u2(new Time); // OK
```



```
shared_ptr<Time> s1(new Time);  
shared_ptr<Time> s2 = s1; // OK  
shared_ptr<Time> s3(new Time); // OK
```



```
shared_ptr<Time> s1(new Time);  
weak_ptr<Time> w1 = s1; // OK
```