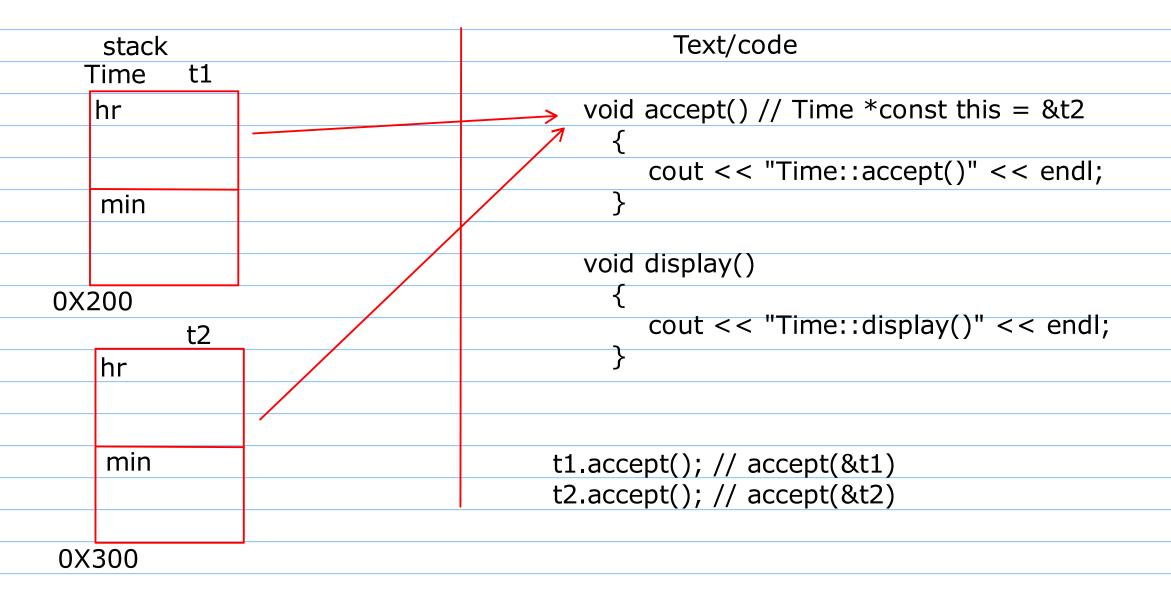
this pointer

- It is a pointer that is passed internally to all the non static member functions of the class
- It stores the address of the current calling object
- using this inside the function body is totally optional



- # Types of member functions
- 1. Constructor
- 2. Destructor
- 3. Mutator
- 4. Inspector
- 5. Facilitator

}

- 1. Constructor
- It is a special member function of a class
 - 1. The name of the ctor function is same as that of the class name
 - 2. Ctor does not have any return type
 - 3. It gets automatically called when object is created

#Types of Constructor

1. Defualt/Parameterless Ctor

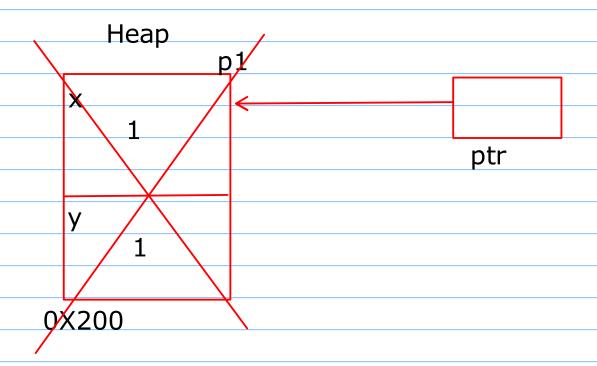
2. Parameterized Ctor	class Customer{
3. Copy Ctor	class castorner (
5. Copy Ctor	•
Time(){	•
hr=10; min=10;	
min=10;	
}	
	}
Time(int,int){	

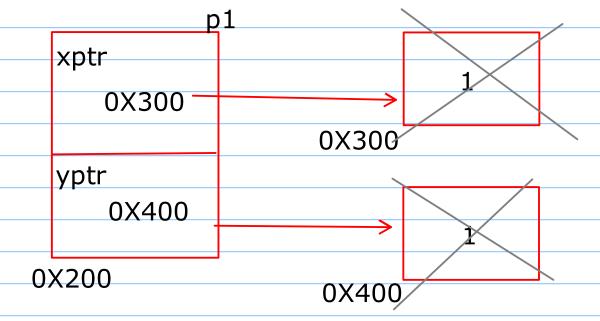
Ctor members initializer list

- It is a way of initializing the data members of the class in the same way as per their declaration order.
 - It is also used for initializing the constant data members

Ctor Delegation

- It is a way of reusing the ctor body.
- one ctor can delegate the task of initialization to another ctor

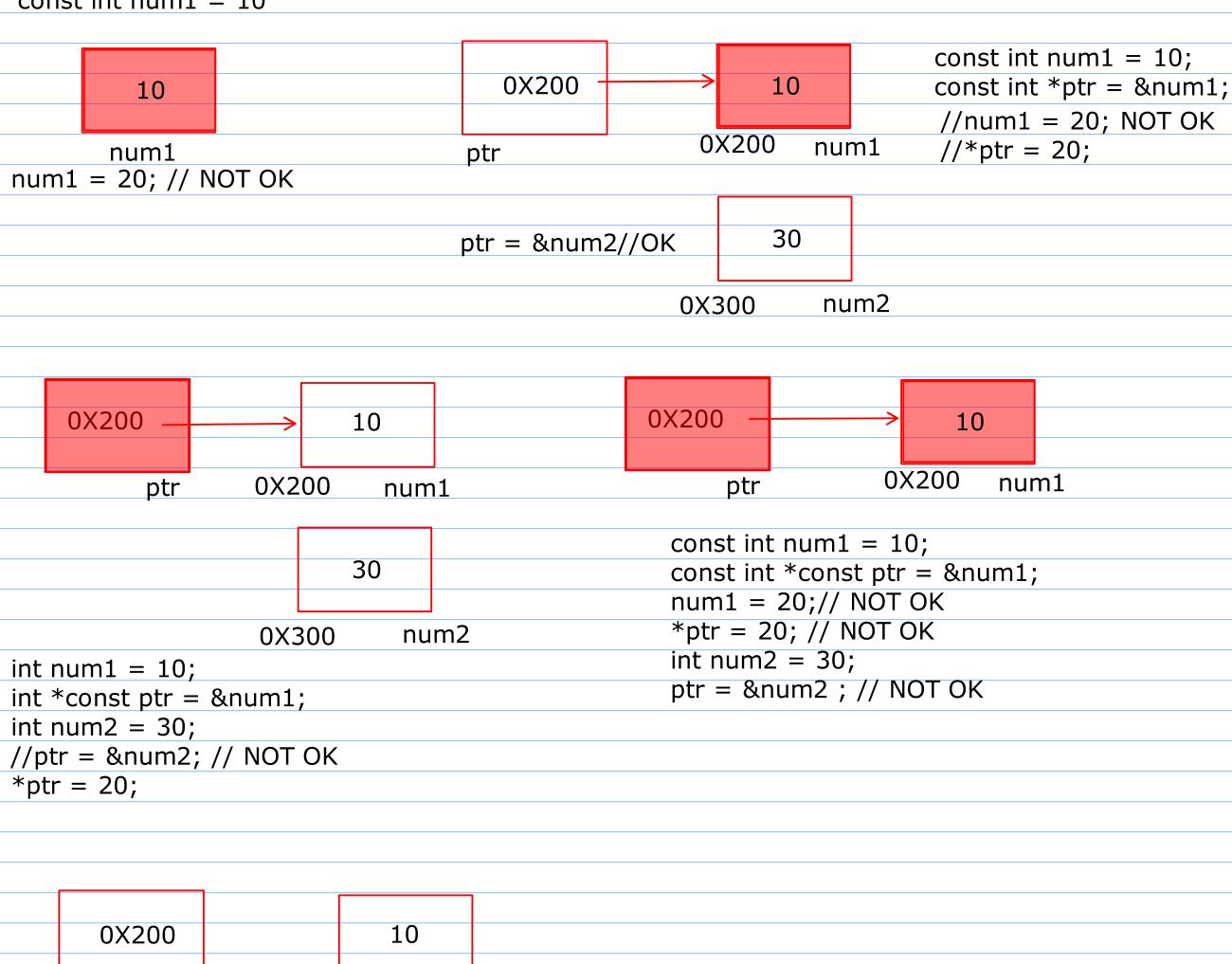




Destructor

- It is a special member function of a class
 - 1. The name of the dtor function is same as that of the class name with a tild(\sim)
 - 2. Dtor does not have any return type
 - 3. It gets automatically called when object goes out of scope

constant data memebers constant memeber functions constant object constant variable constant pointer



0X200

ptr

int num1 = 10;

int num2 = 30;

ptr = &num2;

num1 = 20;

const int *ptr = &num1;

//*ptr = 20; // NOT OK

num1

30

num2

1. Constant Data Member

- It must be initialized inside ctor members initializer list
- Once initialized we cannot change the value inside any functions

2. Constant Member function

- It cannot change the state of an object inside it.
- We cannot change the value inside the data members in these constant functions

3. Constant Object

- Once created the state of the object cannot be changed.
- we cannot call non constant member functions on these constant objects
- we can call only constant member functions on constant objects

