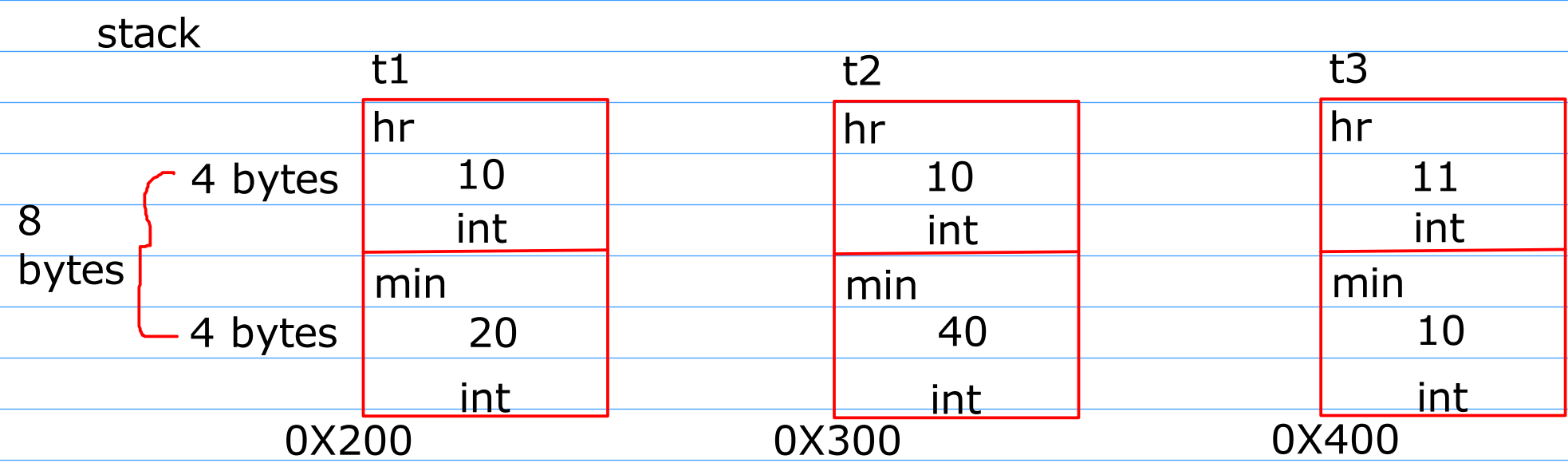


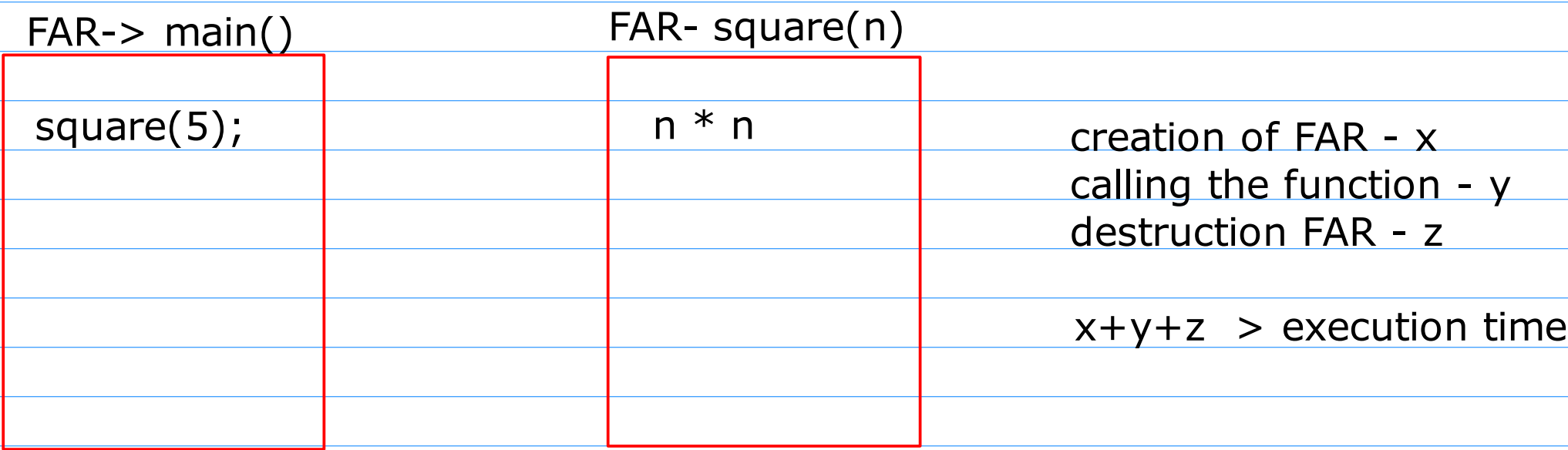
- OOP
- class
- It is a logical entity
  - It is also called as blueprint of an object
  - class consists of data members and member functions

- Object
- A variable of a class type is called as object
  - It is a physical entity
  - It is also called as instance of the class



Time t1;

- Access Specifier for the class
1. public -> all the public members of the class are accessible outside the class on class object
  2. private -> all the private members are accessible only within the class and not outside the class
  3. protected-> accessible only within the class and the derived classes



```
#define SIZE 5.5

inline int size(){
    return 5;
}
```

Name Mangling

namespace

- It is a container used to oraganize the code

Camel Case

total

totalSalaray

calculateTotalSalary()

namespace std{

}

Pascal Case

Employee

EmployeeAttendance

Object defines 3 things

1. state - The data members of the class represent the state of an object
2. behaviour - The member functions represent the behaviour of an object
3. identity - unique field inside the class will be used as an identity.

If the unique field is not present then address will be considered for its identity

class Date{

Date d1;

d1.deposit()

}

Date d2;

class BankAccount{

int accno;

string name;

double balance;

}

BankAccount a1;   // 1001

BankAccount a2;   // 1002

d1 - 24/2/2025

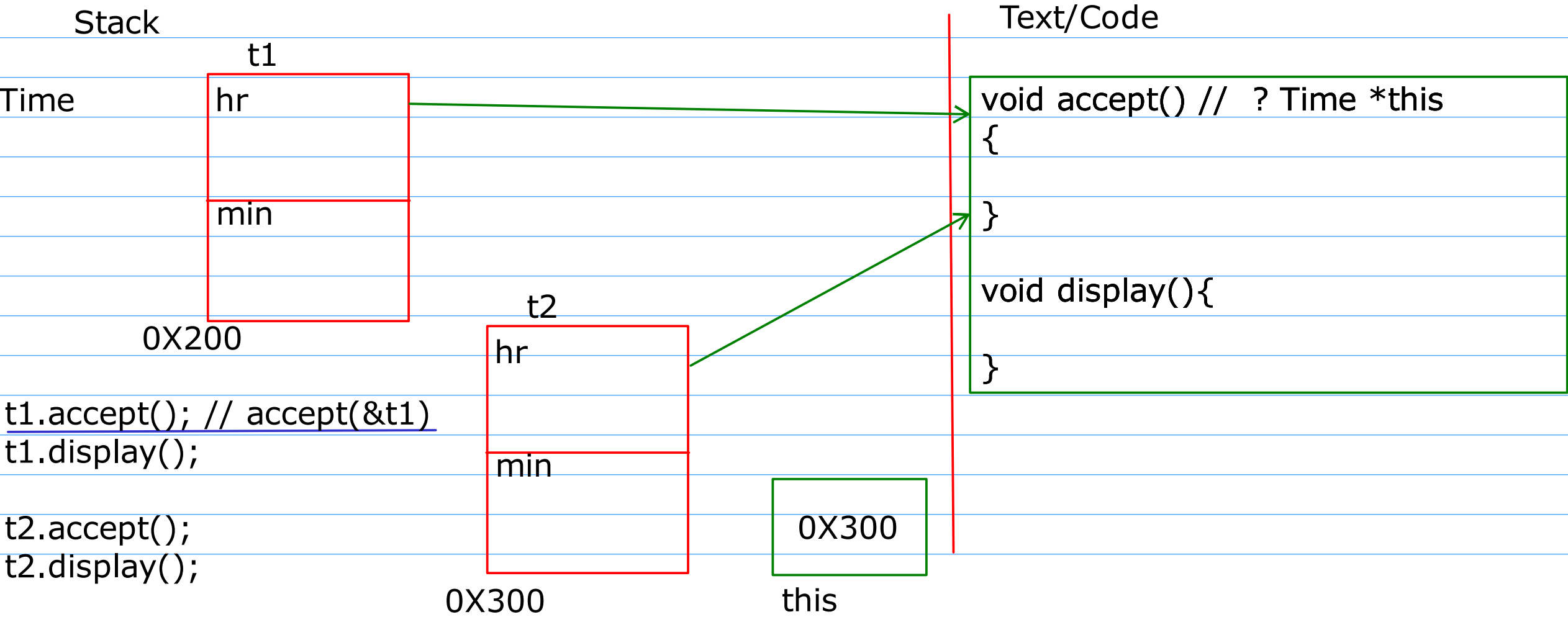
d2 - 25/2/2025

Stack

Data

Heap

Text/Code



```
void f1(){  
int num = 10;  
}
```

```
f1();  
f2();  
f3();  
f4();
```

```
void f2(){  
int num = 20;  
}
```

```
void f3(){  
int num = 30;  
}
```

```
void f4(){  
int num = 40;  
}
```