

OM46 classBoard

~~C~~
~~DS~~

Apti

DCN

OOPc c++

BD and AI

DAC --> C++

Lecture

Lab

==>B

7

oop --> 2000+ -->C++

C --> C++ -->OOP

int main()

{

✓//--

✓//--

✓//---

✓printMessage();

✓//--

✓//--

→ printMessage();

✓//--

→ printMessage();

→ printMessage();

printMessage();

return 0;

}

FAR

void printMessage()

✓printf("\n Good morning");

✓printf("\n Hello .. OM46 ... :)");

}

✓void printValue(int n) => printValue@int ✓

✓void printValue(char ch) => printValue@char ✓

✓void printValue(int n1,int n2) => printValue@int,int

✓void printValue(int n,char ch) => printValue@int,char

✓void printValue(char ch,int n) => printValue@char,int }

emp

name

empid

sal

age

mgr

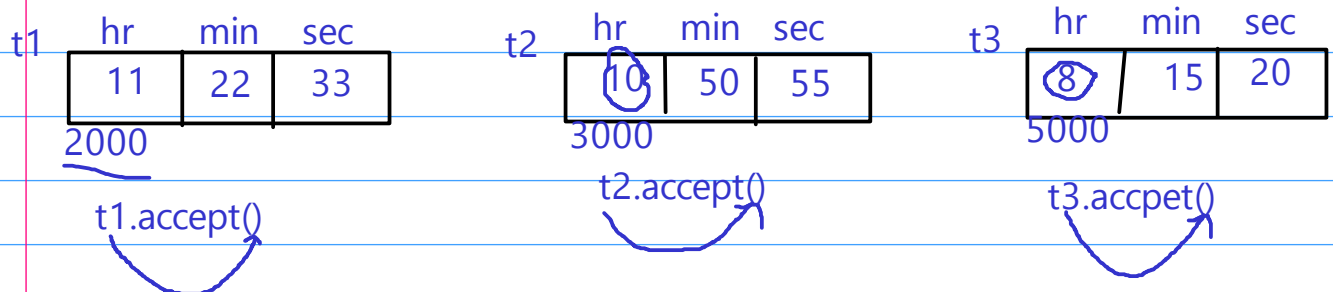
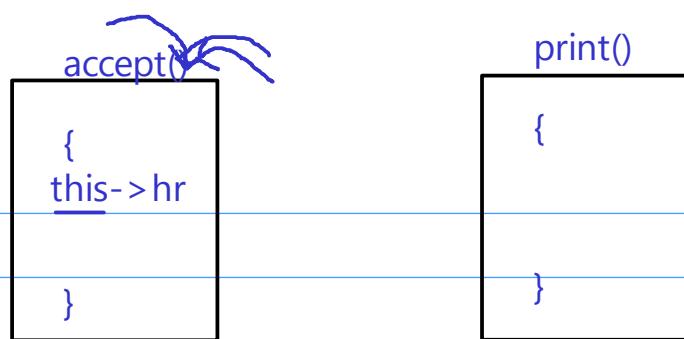
roll_no

time

hr ✓

min ✓

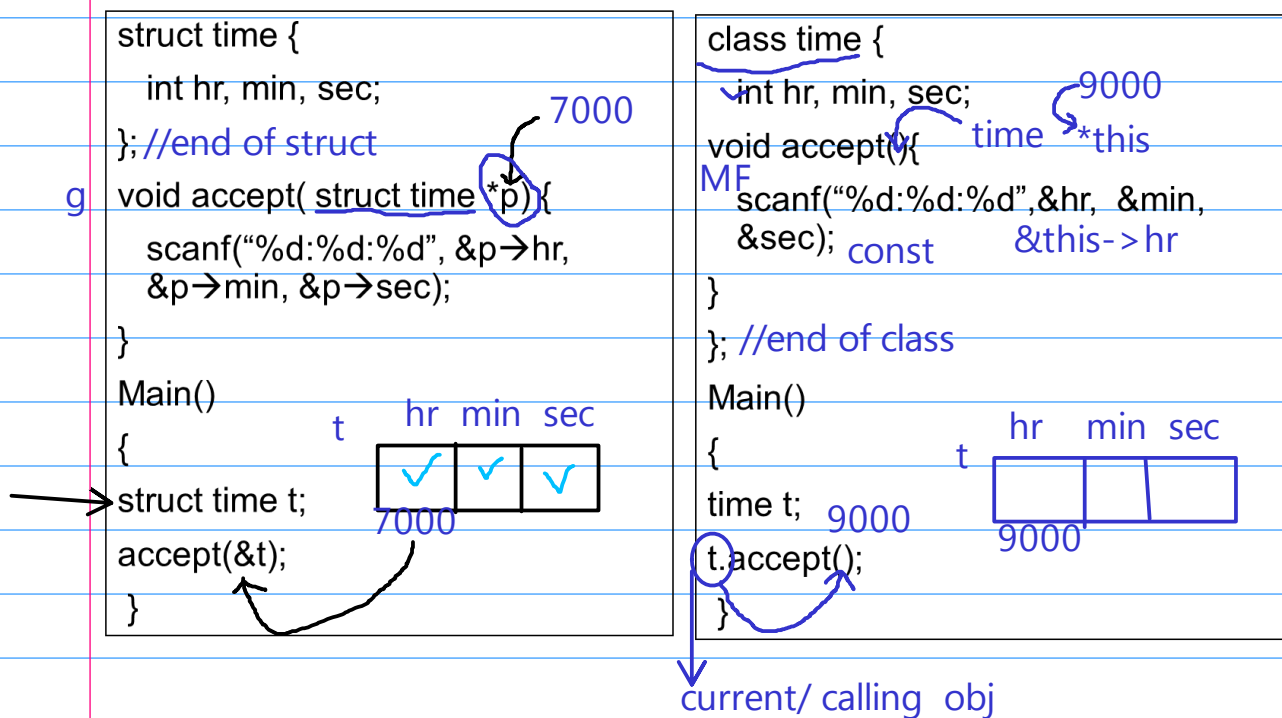
sec ✓

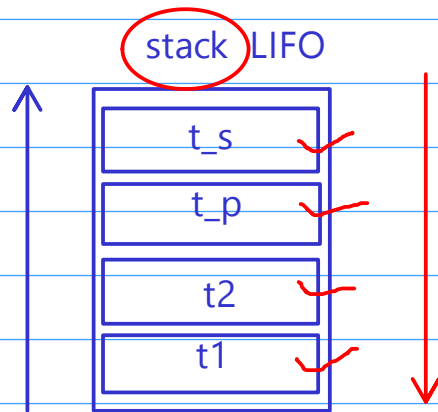


this -> java, c++, c#
self -> py, objC

C

C++





ref
new - delete
deep - shallow

day 4
f/b
oop_cpp_quiz-1

3
1:concept ✓
2:app ✓
3:req ✓

int n1;
n1=5
n1=10

n1 ref
15
5000

int& ref=n1;
ref=15

cout->n1==>15
cout->ref==>15

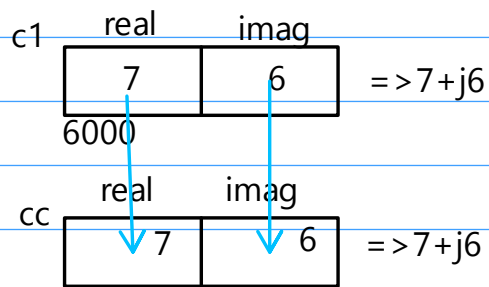
int -> interger type data type
int* -> interger pointer type datatype
int& -> interger ref type datatype

```
//int a1=a
//int& b1=b
void mySwap(int a1, int& b1) {
    int temp = a1;
    a1=b1;
    b1=temp;
}

int main() {
    int a=11,b=99;
    cout<<"\n before swap a="<<a<<" b="<<b;
    mySwap(a,b);
    cout<<"\n after swap a="<<a<<" b="<<b;
}
```

by ref (green arrow from b1 to a1)

by value (red arrow from a to a1)



$$n3 = n1 + n2$$

```

class complex
{
public:
    sum(✓ complex& c2)
    {
        7
        this->real+c2.real;
        this->imag+c2.imag;
    }
}

```

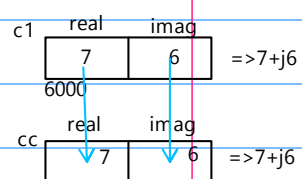
```

main()
{
    complex c1(7,6)
    complex c2(3,2)
    complex c3;

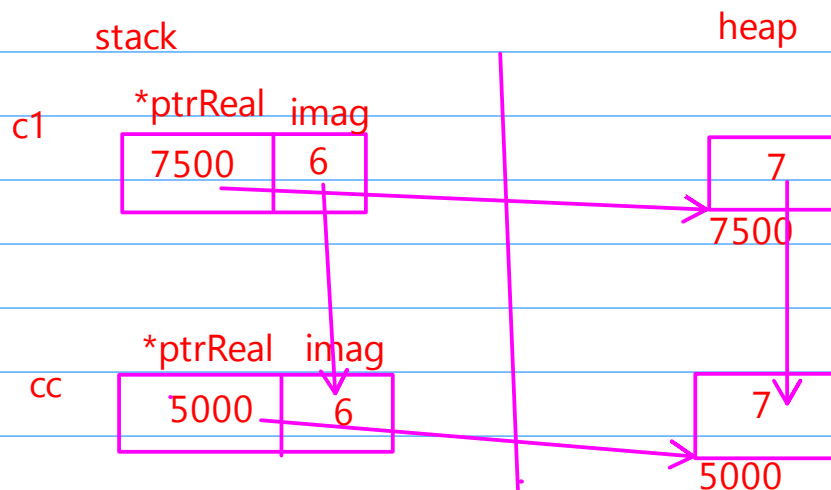
    c3 = c1.sum(c2)
}

```

old case
shallow



New case deep



6=>10Q 1=20Q
 5th -> oops
 6th -> inheritance
 7th -> adv, exp,temp,mcq ==>20

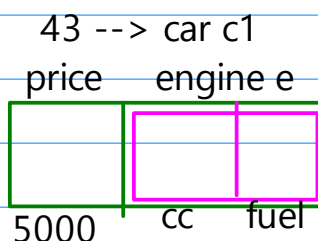
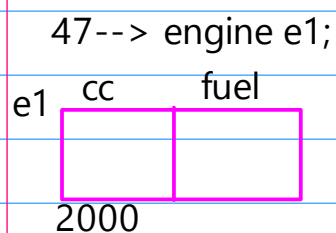
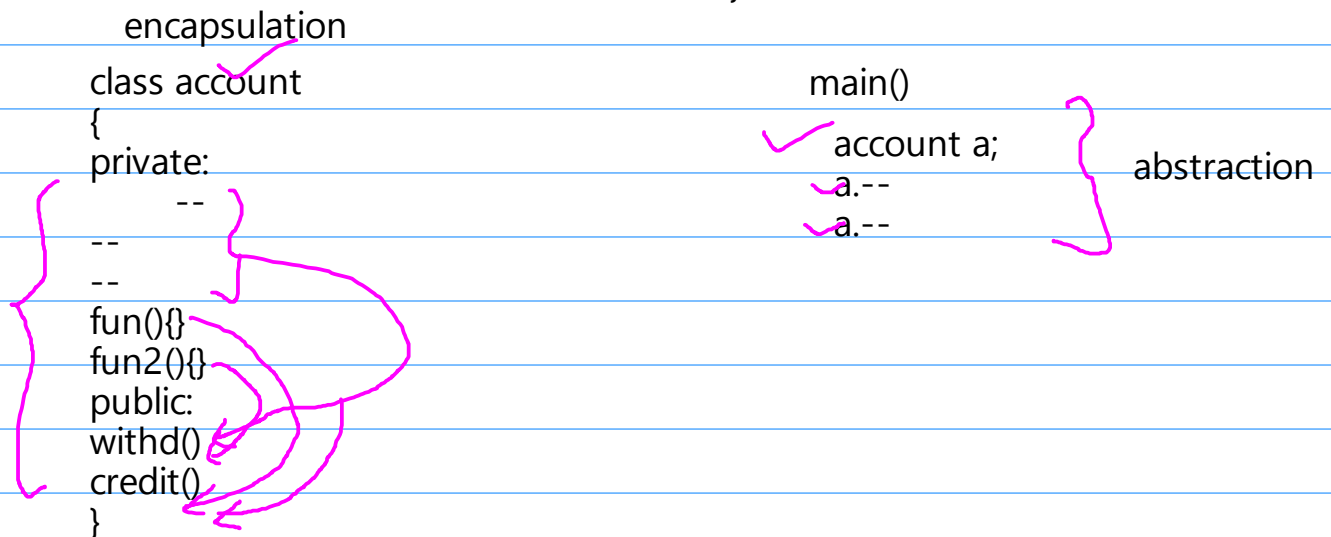
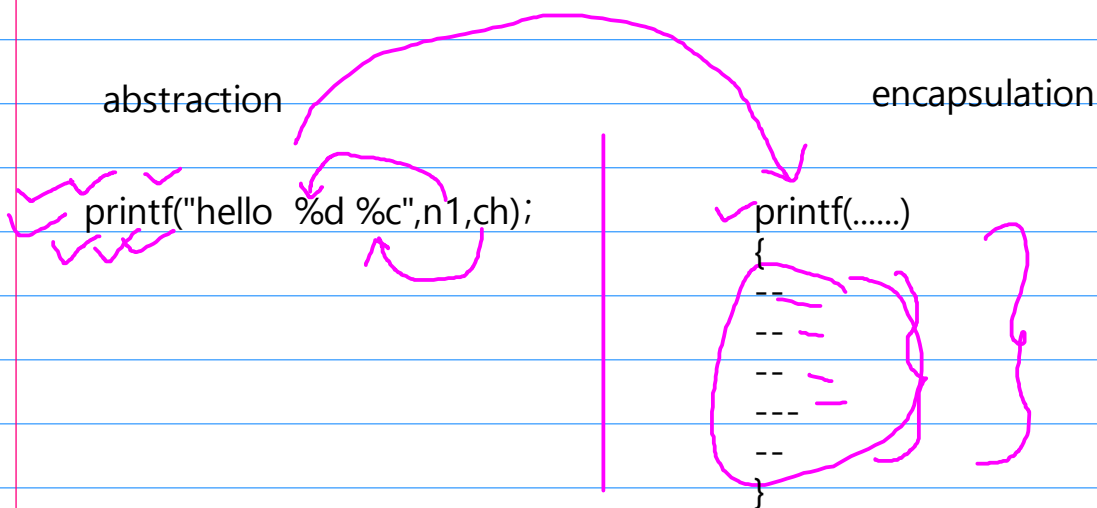
value of count=0 address of count=0x4e2008

n1 + - n2

t1+t2

c1+c2

p++ ✓



time
-hr
-min
-sec

complex
-real
-imag

car
-e
-price

engine
-fuel
-cc

class base{};
class derived : public base {}
emp is-a person

// base , parent

person
{

- name

- age

+ printPerson() //2

+ accept(); //2

}

//derived , child

emp : public person

{

-empid

-sal

+ printEmp() //4

updateName()

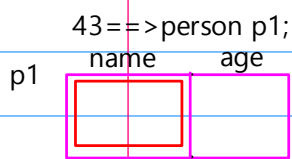
accept(); => 4

}

DM=>4

MF=>4

mb=>8



person

*pptr

9000

40==>emp e1;

name	age	empid	sal

9000

person

emp

int n1 int* ptr1=NULL ptr1=&n1;

char ch char* ptr2=NULL ptr2=&ch;

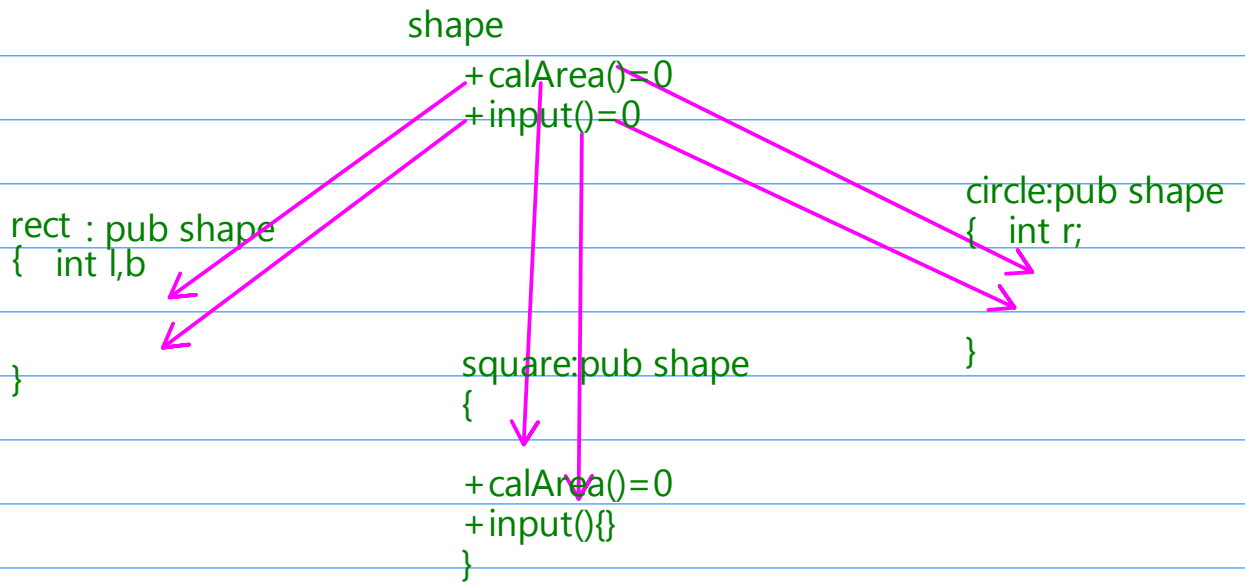
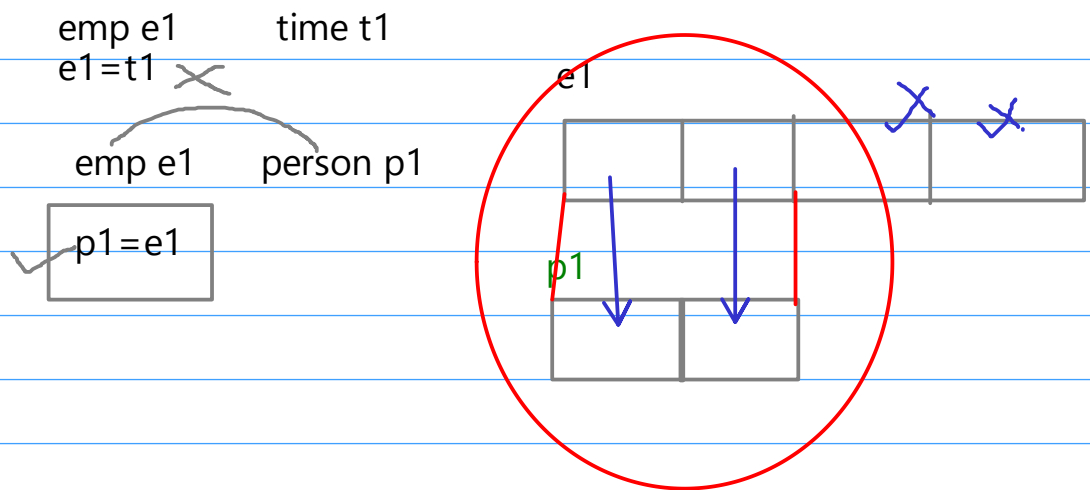
~~ptr1=&ch; //error~~

person p1; person *pptr=NULL; pptr=&p1;

emp e1; emp *eptr=NULL; eptr = &e1;

emp e1; person *pptr=NULL;

pptr=&e1; //no error

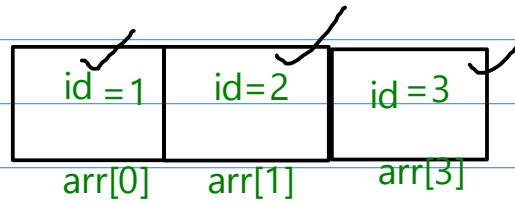


num3
num1
20

num2
21

num1=20
num2=21
num3=20

count
3



py -> DBDA ditiss DESE->TOI

5 -> 4=20

quiz -6 =10 end=20 tomorrow
feedback

