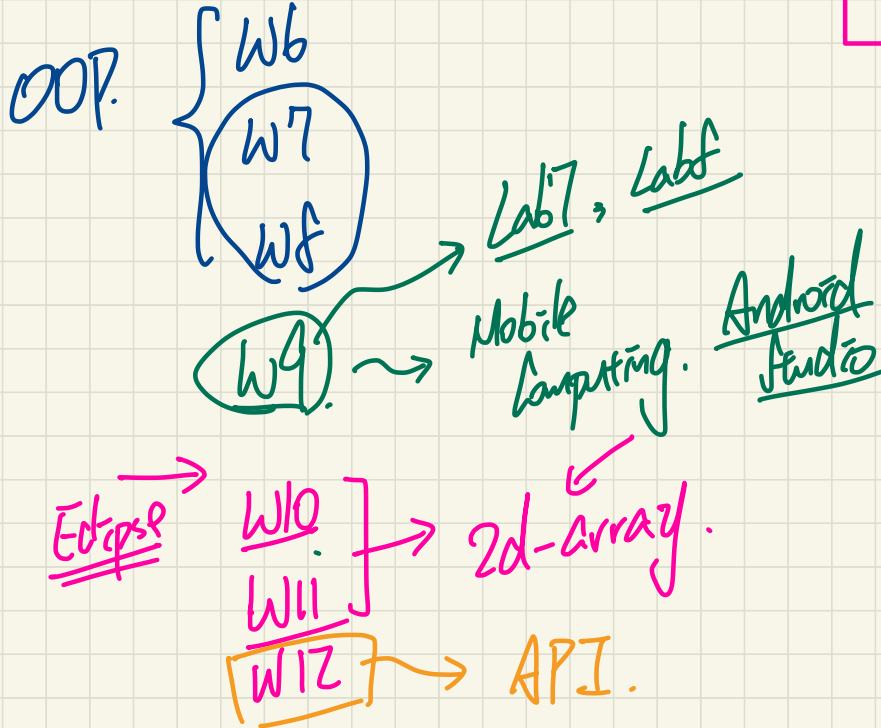
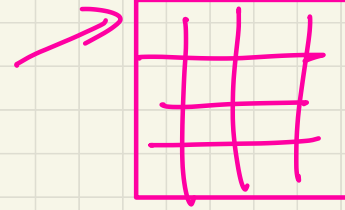


EECS1022 Programming for Mobile Computing  
(Winter 2021)

Q&A - Lectures W7

Monday, March 8

# Weekly Tutorials



- Practice Programming Test 3

(challenging).

- Practice Written Test 3 (aliasing)

- Lab6

For Constructor methods in a class, we are supposed to create different constructor method for each calling scenario (of course with different input types and their order).

Consider:

```
public class c_name{
    int c_var1;
    boolean c_var2;
    public c_name(int num1, boolean bool2){
        c_var1 = num1;
        c_var2 = bool2;
    }
    public c_name(int num1){

```

initialization of each attribute should occur in constructors.  
then, why declare 2nd param in the first place.

What if one calling wants to omit 'bool2' input and give it a default value?

Seems we need to create another constructor method involving only 'int num1' parameter.

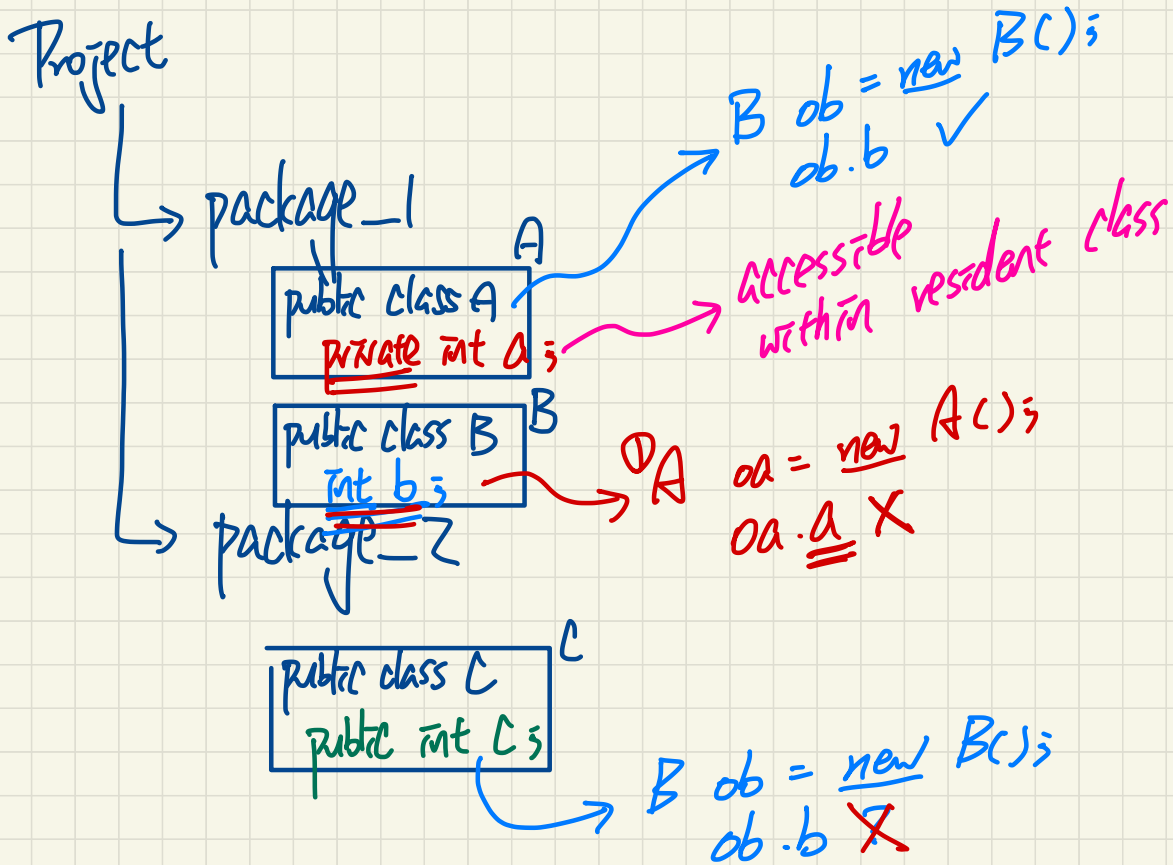
And also, what to do if the caller will possibly give arbitrary length of arguments to a class instance? Any syntax related to this scenario?

Thanks!

overloading

- names same
- lots of parameter types distinct.

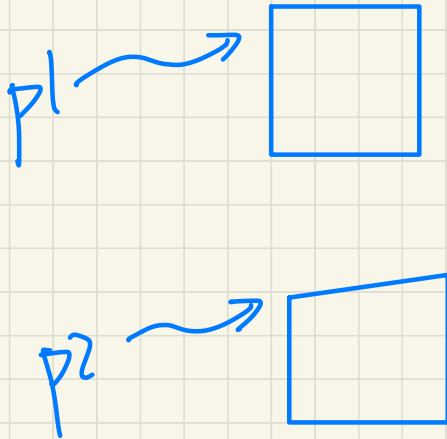
new c\_name ( — — )  
                  — — )



## Written Test 2 - Practice Questions on Aliasing

1. Assume that a **Person** class is already defined, and it has an attribute **name** and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some **main** method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyoon");  
3 System.out.println(p1 != p2); → True.
```

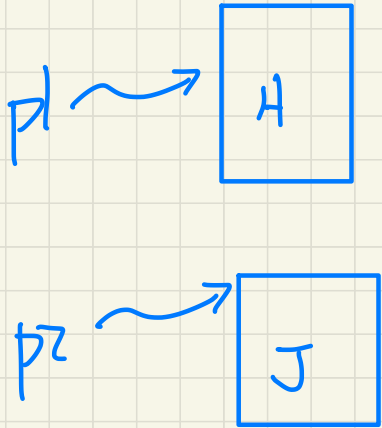


# Written Test 2 - Practice Questions on Aliasing

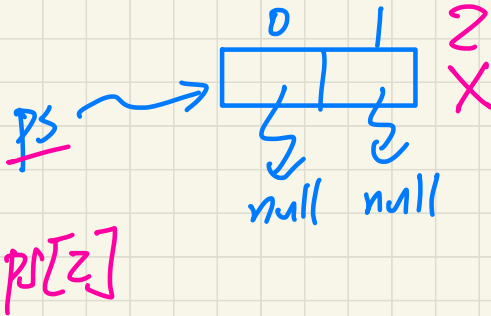
2. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyeon");  
3 Person[] persons = new Person[2];  
4 System.out.println(persons[persons.length()] != null);
```

2 → compilation error!  
-NPE  
-AIOBE



`ps[2].getName()` → NPE



Tip T2  
SCE & Array Indexing.

## Written Test 2 - Practice Questions on Aliasing

3. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");
2 Person p2 = new Person("Jiyoon");
3 Person[] persons = new Person[2];
4 System.out.println(persons[persons.length] != null);
```

AI OBE.

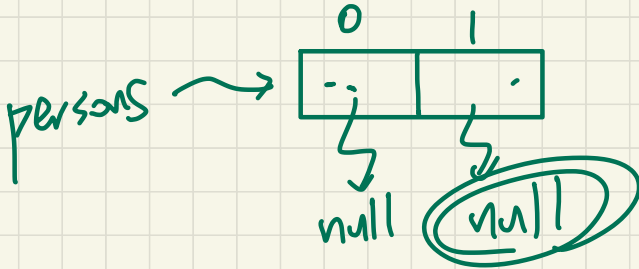


## Written Test 4 - Practice Questions on Aliasing

4. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyoon");  
3 Person[] persons = new Person[2];  
4 System.out.println(persons[persons.length - 1] != null);
```

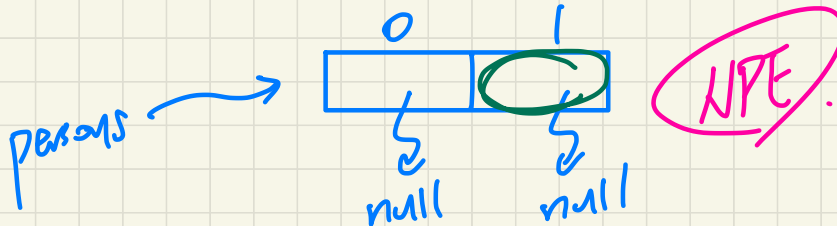
Handwritten annotations: A circled '1' is above line 2, a circled 'E' is to the right of line 2, a circled '2' is above line 3, and a circled '!' is above the `!= null` in line 4.



## Written Test 3 - Practice Questions on Aliasing

5. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyeon");  
3 Person[] persons = new Person[2];  
4 System.out.println(persons[persons.length - 1].namegetName().equals("Jiyeon"));
```

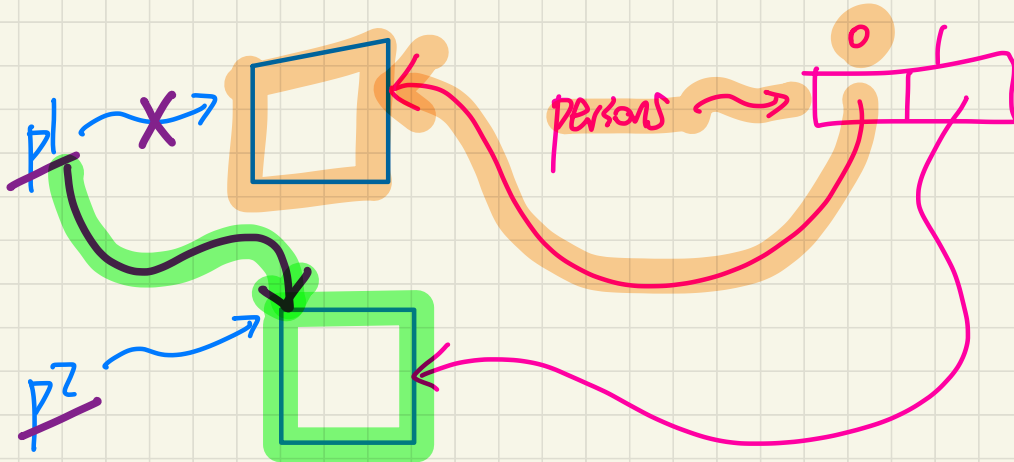


## Written Test 3 - Practice Questions on Aliasing

6. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyoon");  
3 Person[] persons = {p1, p2};  
4 p1 = p2;  
5 System.out.println(persons[0] == p1);
```

*False.*

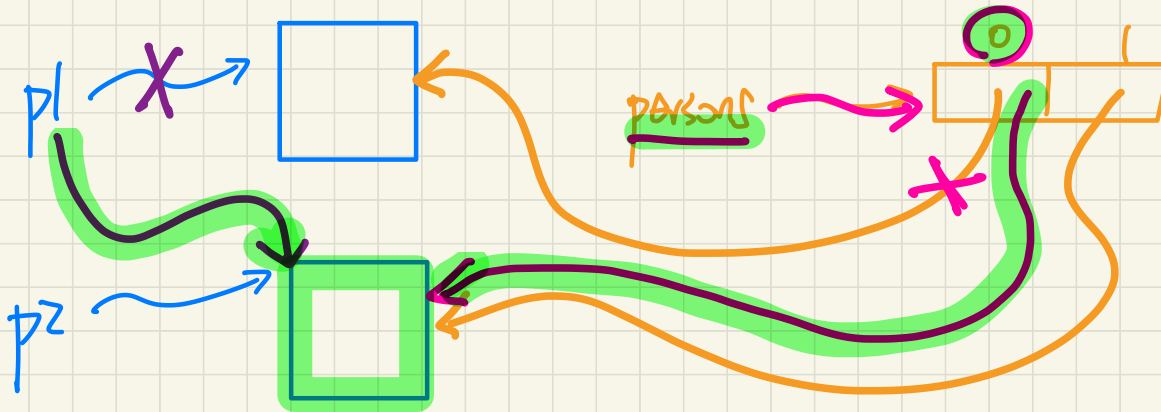


# Written Test 3 - Practice Questions on Aliasing

7. Assume that a `Person` class is already defined, and it has an attribute `name` and a constructor that initializes the person's name from the input string. Consider the following fragment of Java code (inside some `main` method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyeon");  
3 Person[] persons = {p1, p2};  
4 p1 = p2;  
5 persons[0] = p2;  
6 System.out.println(persons[0] == p1);
```

~~False?~~  
True



# Written Test 3 - Practice Questions on Aliasing

8. Assume that a **Person** class is already defined, and it has an attribute **name**, a constructor that initializes the person's name from the input string, and a mutator method **setName** that changes the person's name from the input string. Consider the following fragment of Java code (inside some **main** method):

```
1 Person p1 = new Person("Heeyeon");  
2 Person p2 = new Person("Jiyeon");  
3 Person[] persons = {p1, p2};  
4 p1 = persons[1];  
5 persons[0] = p2;  
6 p2.setName("Jihye");  
7 System.out.println(p1.name);
```

→ Jihye

