

EECS2030 Advanced Object-Oriented Programming  
(Fall 2021)

Q&A - Lecture 2a

Thursday, September 30

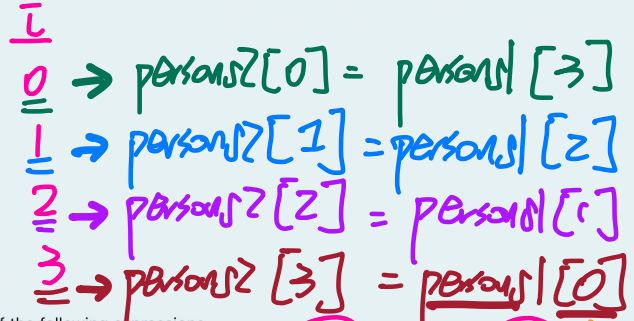
# Announcement

- Lab1 (due: Oct. 1) <sup>2pm EST</sup>
- Written Test (due: Sep. 30 - Oct. 1) <sup>2pm</sup> → 2pm EST
- Lecture W4 (released: Sep. 27)
- Programming Test 1 Guide & Practice (released: Sep. 29)
- Lab2 (to be released: Oct. 1)

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 an accessor `getName` returning the person's name. Consider the following fragment of Java code (inside some main method):

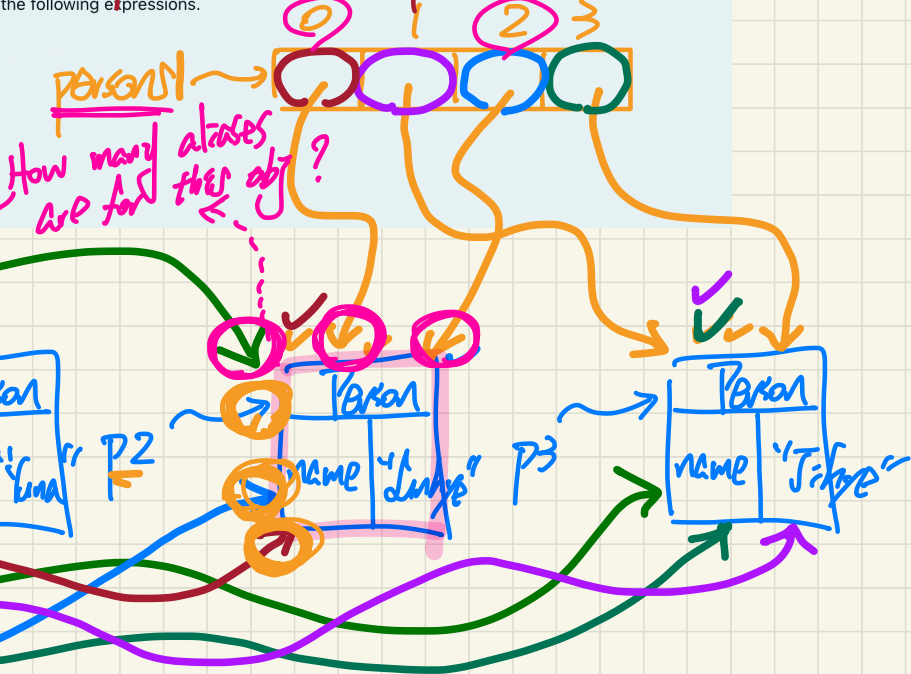
```
Person p0 = new Person("Suyeon");
Person p1 = new Person("Yuna");
Person p2 = new Person("Sunhye");
Person p3 = new Person("Jihye");
```

```
p0 = p2;
p1 = p3;
Person[] persons1 = {p0, p1, p2, p3};
Person[] persons2 = new Person[persons1.length];
for(int i = 0; i < persons2.length; i++) {
    persons2[i] = persons1[persons2.length - i - 1];
}
```



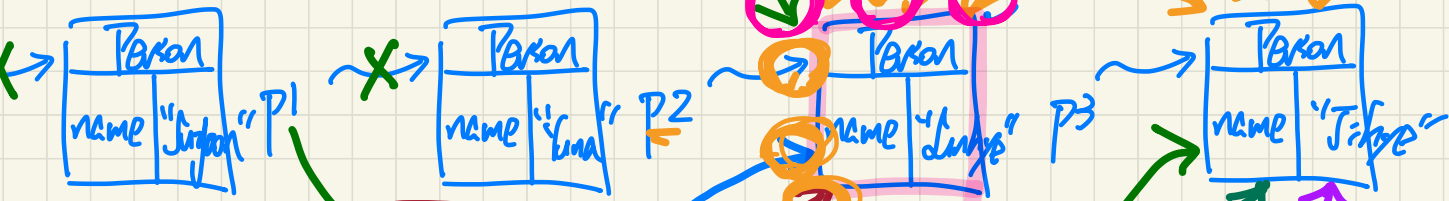
Executing the above fragment of code, after exiting from the loop, indicate the value of each of the following expressions.

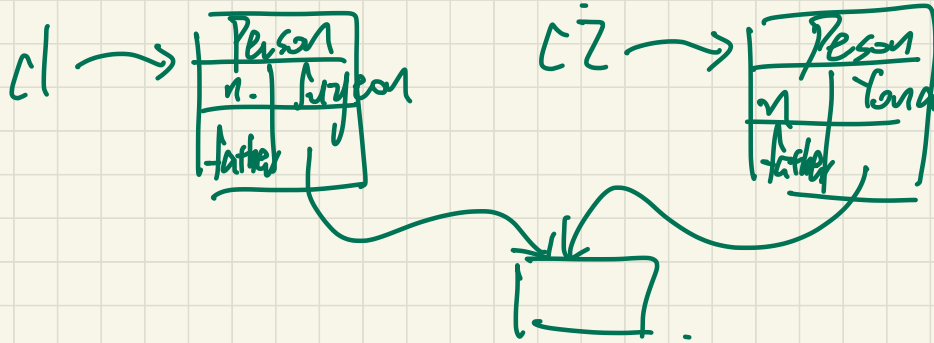
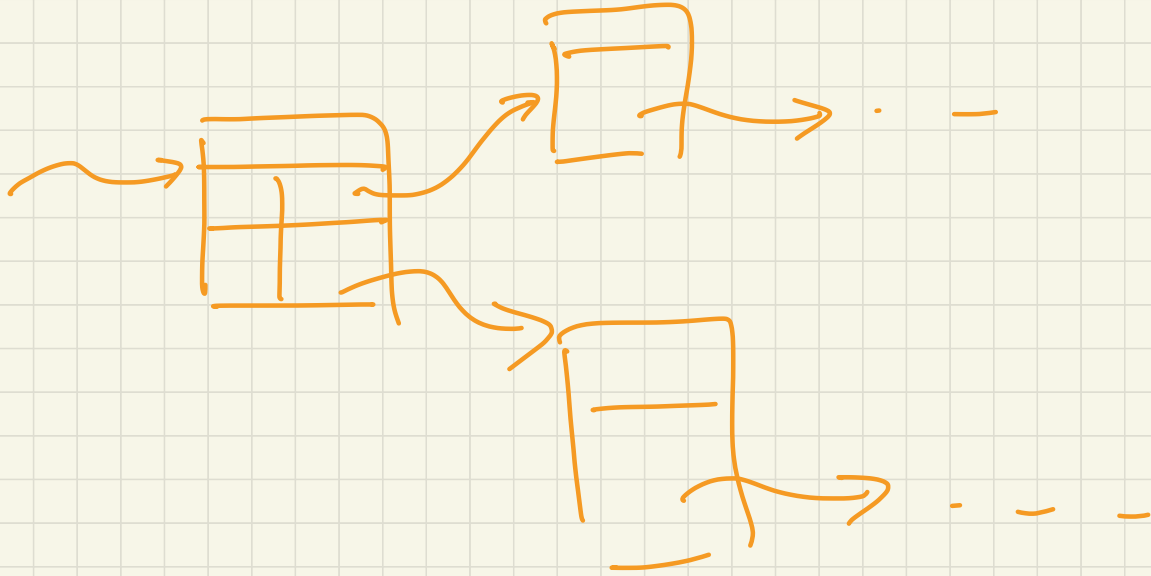
<code>persons2[3].getName()</code>	Choose...	↕
<code>persons2[2].getName()</code>	Choose...	↕
<code>persons2[1].getName()</code>	Choose...	↕
<code>persons2[0].getName()</code>	Choose...	↕



6 aliases

- ① persons[2]
- ② persons[0]
- ③ p0
- ④ p2
- ⑤ persons2[1]
- ⑥ persons2[3]



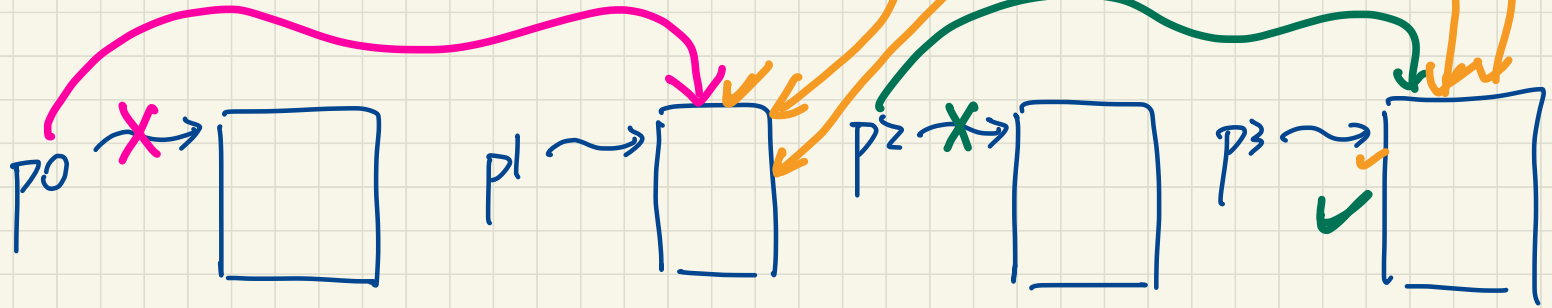


$\bar{int} \ i = 23;$

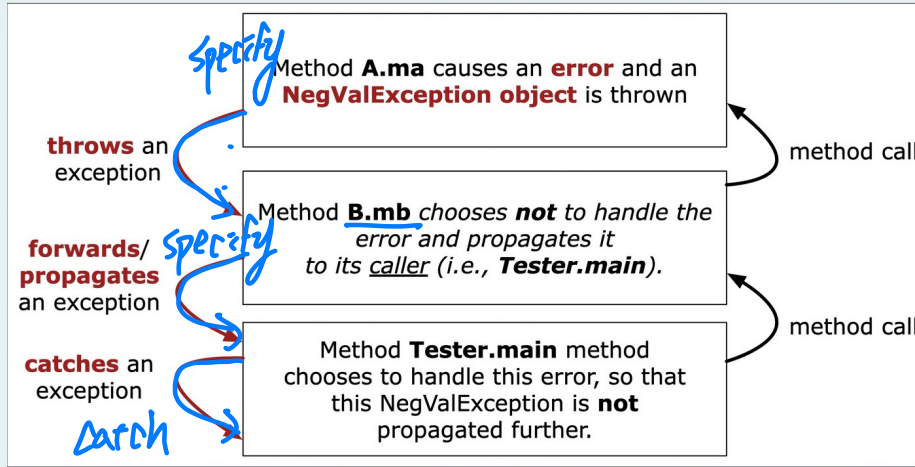
$\bar{int} \ j = 23;$

$\bar{i} = \bar{j};$

```
1 Person p0 = new Person("Suyeon");  
2 Person p1 = new Person("Yuna");  
3 Person p2 = new Person("Sunhye");  
4 Person p3 = new Person("Jihye");  
5 p0 = p1;  
6 p2 = p3;  
7 Person[] persons = {p0, p1, p2, p3};  
8 p0 = persons[1];  
9 persons[2] = p3;  
10 System.out.println("Done!");
```



Consider the following call stack where method `ma` from class `A` **throws** a `NegValException`:



In the above call stack, upon satisfying the catch-or-specify requirement, how many methods opt for the **specify** option? Your answer must be an **integer** value.

2

m

```
try {  
    o.m1(); throws  
}  
catch ( ) {  
}
```

return

```
m1() {  
    try {  
        throw .  
    }  
    catch ( ) {  
    }  
}
```

not throw

A new example next Wed.  
↳ execution flow  
of exceptions