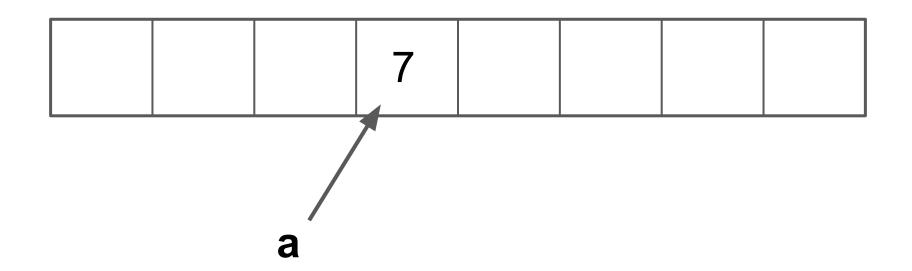
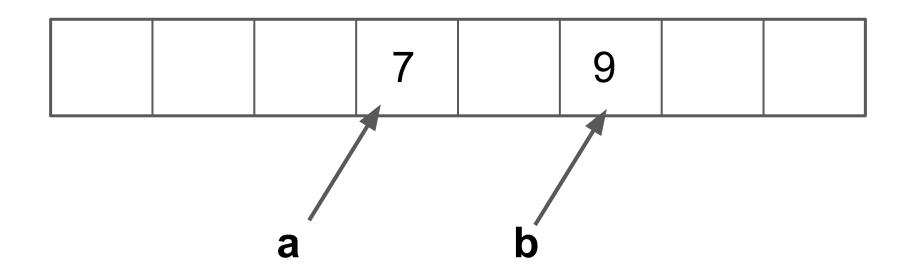
W3D2

References

References Part 1: Integers (immutable)

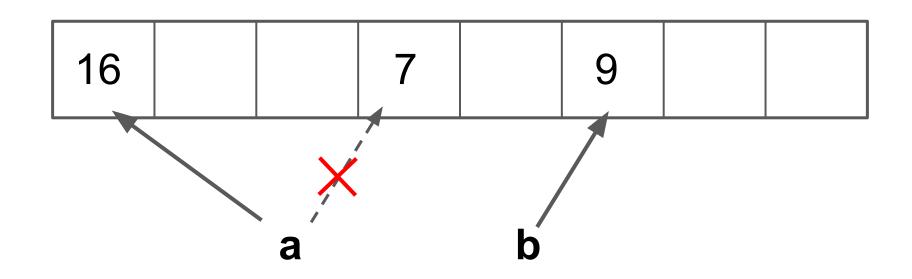




- 1) a = 7 2) b = 9

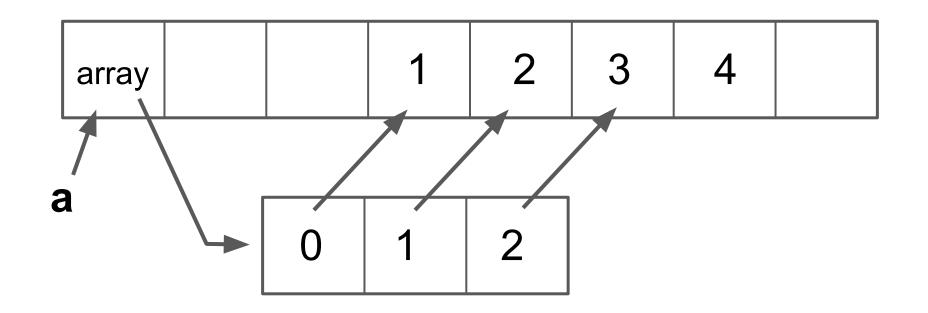
| | 7 | | 9 | | | |
|--|---|--|---|--|--|--|
|--|---|--|---|--|--|--|

- 1) a = 7 2) b = 9 3) a += b

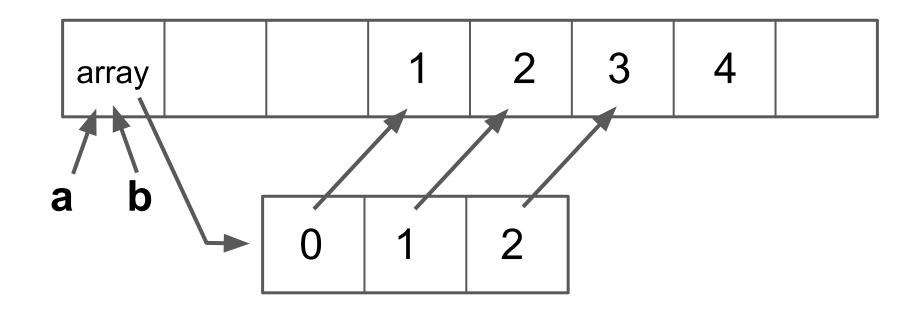


- 1) a = 7 2) b = 9 3) a += b => a = a + b => 16

References Part 2: Arrays (mutable)

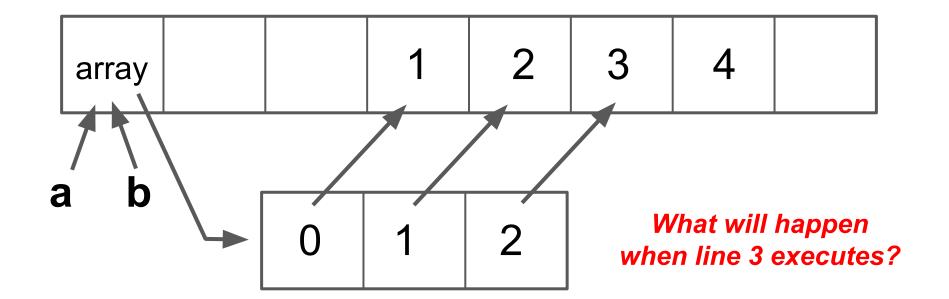


```
a = [1,2,3]
a.object_id
a[0].object_id
a[0].object_id
```



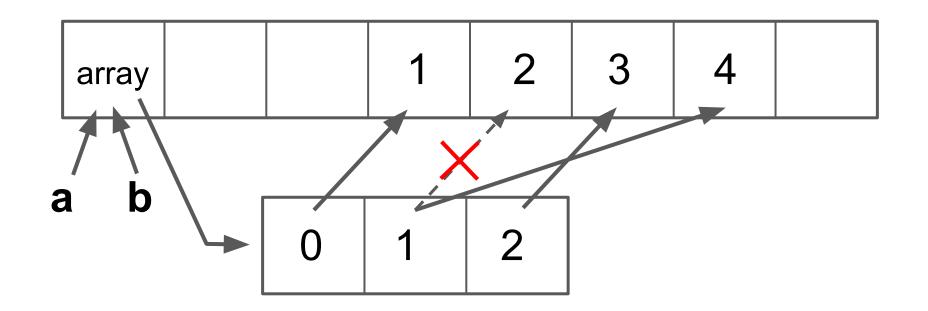
2)
$$b = a$$

b = a b.object_id a.object_id == b.object_id



2)
$$b = a$$

3)
$$b[1] = 4$$

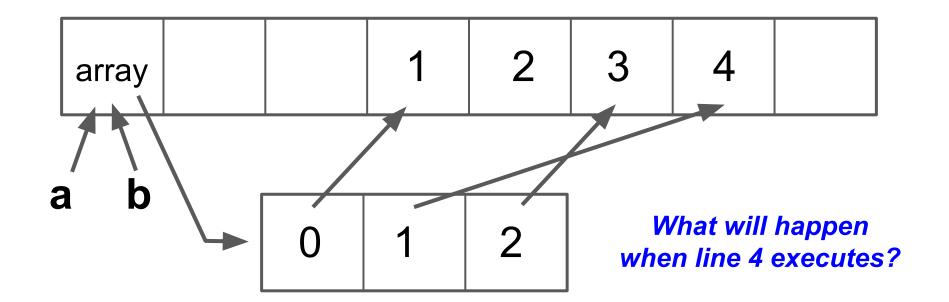


$$2)$$
 b = a

3)
$$b[1] = 4$$

```
a[1] = 4

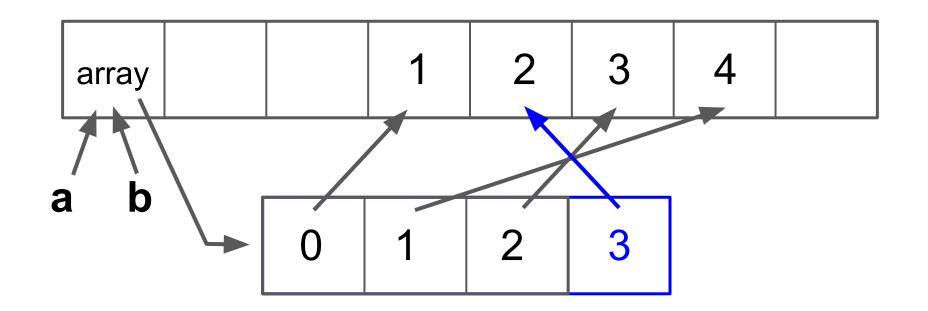
a
b
a.object_id == b.object_id
```



1)
$$a = [1, 2, 3]$$

2)
$$b = a$$

3)
$$b[1] = 4$$



2)
$$b = a$$

3)
$$b[1] = 4$$

```
old_a_id = a.object_id
a.push(4)
a
b
old_a_id == a.object_id
a.object_id == b.object_id
```

Bonus demo 1: `concat`

Bonus demo 2: `+=`

```
old_a_id = a.object_id
a += [8, 9]
a
b
a.object_id == b.object_id
old_a_id == a.object_id
```