Lecture

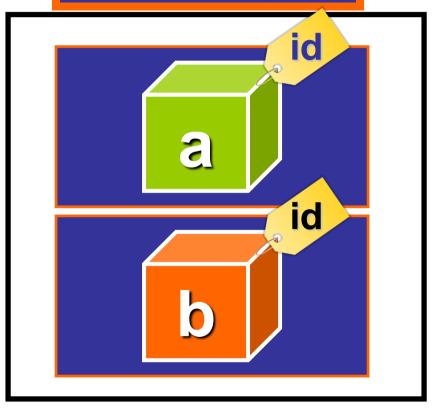




$$>>> a = [6, 2, 6, 2]$$

$$>>> b = [6, 2, 6, 2]$$

Memory

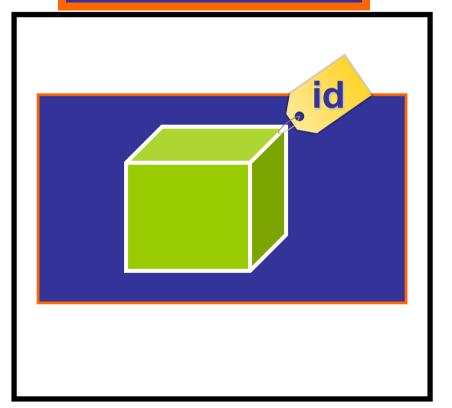




>>> a = [6, 2, 6, 2]

$$>>> b = a$$

Memory

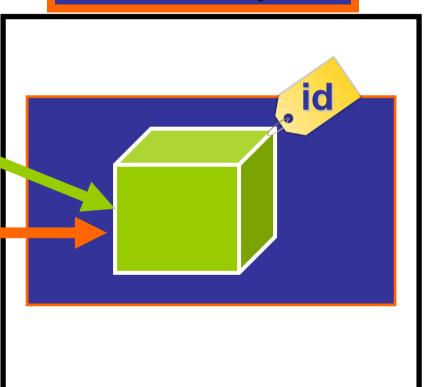




Memory

$$>>> a = [6, 2, 6, 2]$$

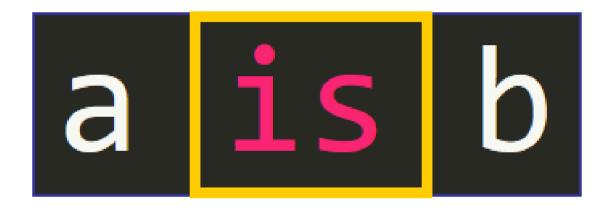
$$>>> b = a$$













a is b

True

• If a and b reference the same object

False

• If a and b don't reference the same object



6.10.3. Identity comparisons

The operators is and is not test for an object's identity: x is y is true if and only if x and y are the same object. An Object's identity is determined using the id() function. x is not y yields the inverse truth value. [4]





6.10.3. Identity comparisons

The operators is and is not test for an object's identity x is y is true if and only if x and y are the same object. An Object's identity is determined using the id() function. x is not y yields the inverse truth value. [4]





6.10.3. Identity comparisons

The operators is and is not test for an object's identity: x is y is true if and only if x and y are the same object. An Object's identity is determined using the id() function x is not y yields the inverse truth value. 4]





```
>>> a = [5, 2, 1, 8, 3]
>>> b = [5, 2, 1, 8, 3]
>>> a is b
False
>>> a = ("a", "b", "c")
>>> b = ("a", "b", "c")
>>> a is b
False
>>> a = "Hello, World!"
>>> b = "Hello, World!"
>>> a is b
False
>>> a = "Hi"
>>> b = a
>>> a is b
True
```



```
>>> a = [5, 2, 1, 8, 3]
>>> b = [5, 2, 1, 8, 3]
>>> a is b
False
>>> a = ("a", "b", "c")
>>> b = ("a", "b", "c")
>>> a is b
False
>>> a = "Hello, World!"
>>> b = "Hello, World!"
>>> a is b
False
>>> a = "Hi"
>>> b = a
>>> a is b
True
```

```
>>> a = [5, 2, 1, 8, 3]
>>> b = [5, 2, 1, 8, 3]
>>> a is b
False
>>> a = ("a", "b", "c")
>>> b = ("a", "b", "c")
>>> a is b
False
>>> a = "Hello, World!"
>>> b = "Hello, World!"
>>> a is b
False
>>> a = "Hi"
>>> b = a
>>> a is b
True
```

```
>>> a = [5, 2, 1, 8, 3]
>>> b = [5, 2, 1, 8, 3]
>>> a is b
False
>>> a = ("a", "b", "c")
>>> b = ("a", "b", "c")
>>> a is b
False
>>> a = "Hello, World!"
>>> b = "Hello, World!"
>>> a is b
False
>>> a = "Hi"
>>> b = a
>>> a is b
True
```

```
>>> a = [5, 2, 1, 8, 3]
>>> b = [5, 2, 1, 8, 3]
>>> a is b
False
>>> a = ("a", "b", "c")
>>> b = ("a", "b", "c")
>>> a is b
False
>>> a = "Hello, World!"
>>> b = "Hello, World!"
>>> a is b
False
>>> a = "Hi"
>>> b = a
>>> a is b
True
```



S VS.

is → Same Object

== → Same <u>Value</u>

Same Value Same Object



```
>>> a = [1, 6, 2, 6]
>>> b = [1, 6, 2, 6]
>>> a is b
False
>>> a == b
True
```



```
>>> a = [1, 6, 2, 6]
>>> b = [1, 6, 2, 6]
>>> a is b
False
>>> a == b
True
```



```
>>> a = [1, 6, 2, 6]
>>> b = [1, 6, 2, 6]
>>> a is b
False
>>> a == b
```



```
>>> a = [1, 6, 2, 6]
>>> b = [1, 6, 2, 6]
>>> a is b
False
>>> a == b
```



```
>>> a = [1, 6, 2, 6]
>>> b = [1, 6, 2, 6]
>>> a is b
False
>>> a == b
```

