

code in Python 3.6

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```
x = 10  
y = 23.7
```

Namespace

Global namespace

Name	Address
x	300
y	750

Frames

Global frame

x

Objects

int
10

Objects

int

10

300

float

23.7

750

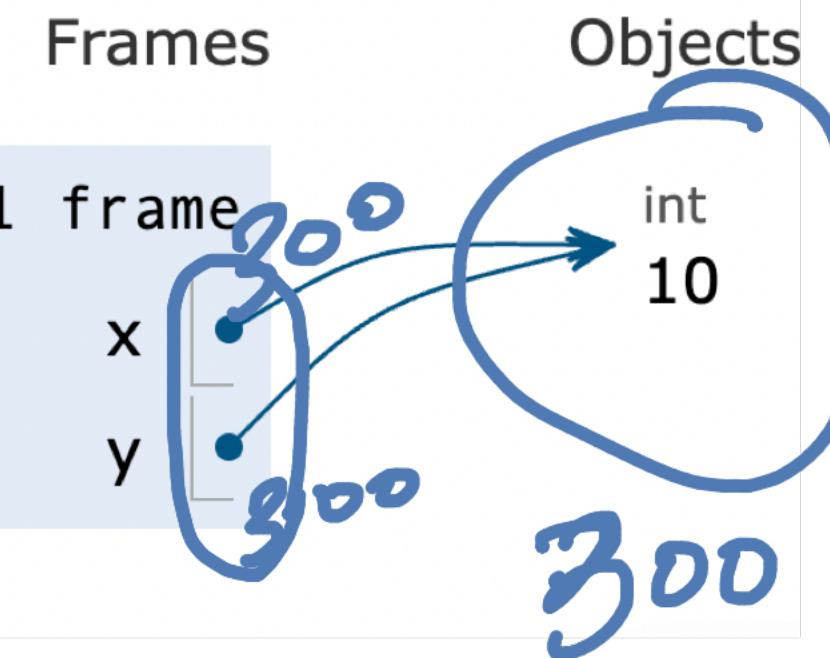
ode in Python 3.6

```
x = 10
print(id(x))
y = 10
print(id(y))
```

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Print output (drag lower right corner to re

```
140053424453824
140053424453824
```

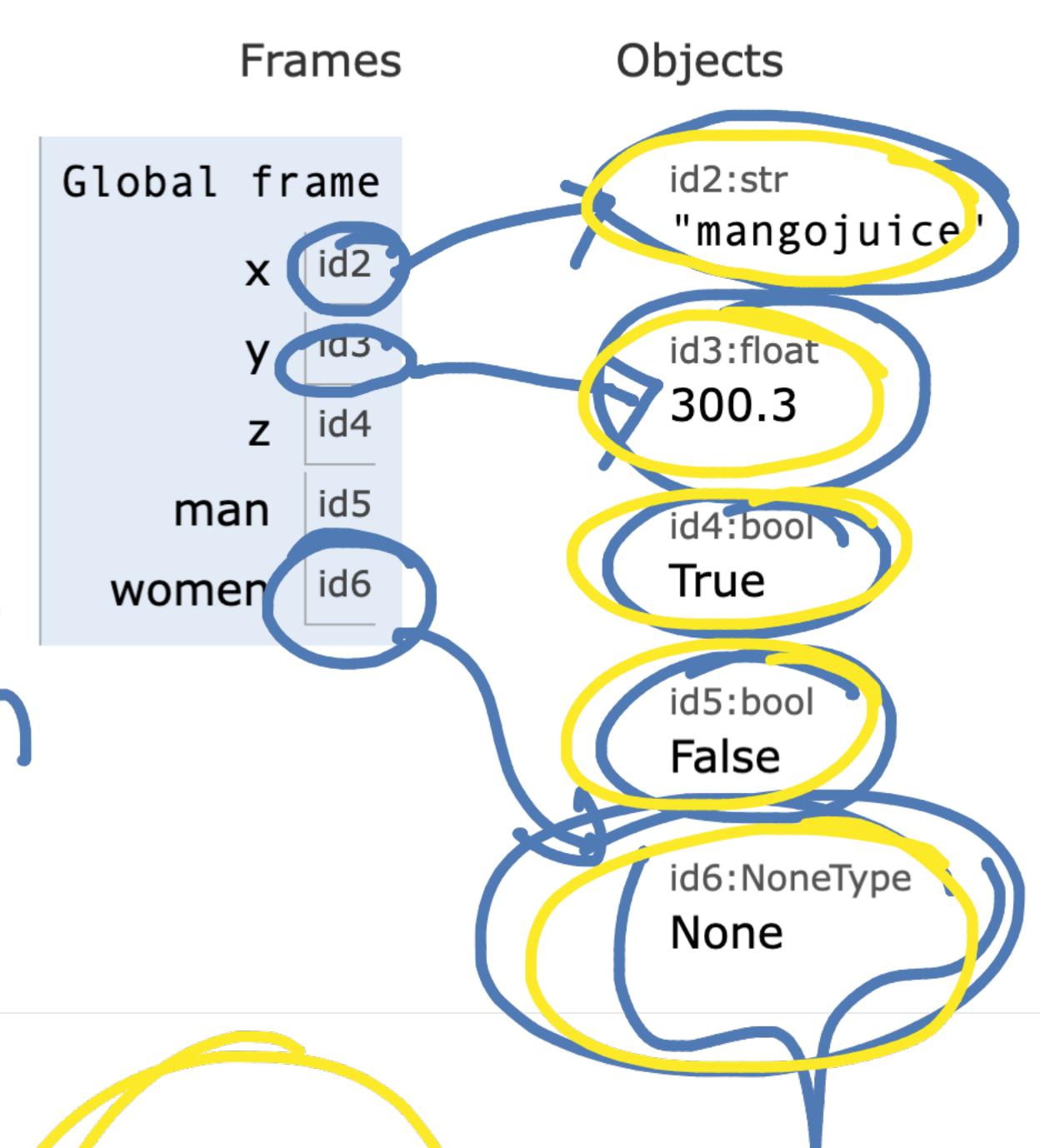


code in Python 3.6

```
x = 10 ✓  
x = 'mangojuice' ✓  
y = 300.30 ✓  
z = True ✓  
man = False ✓  
women = None
```

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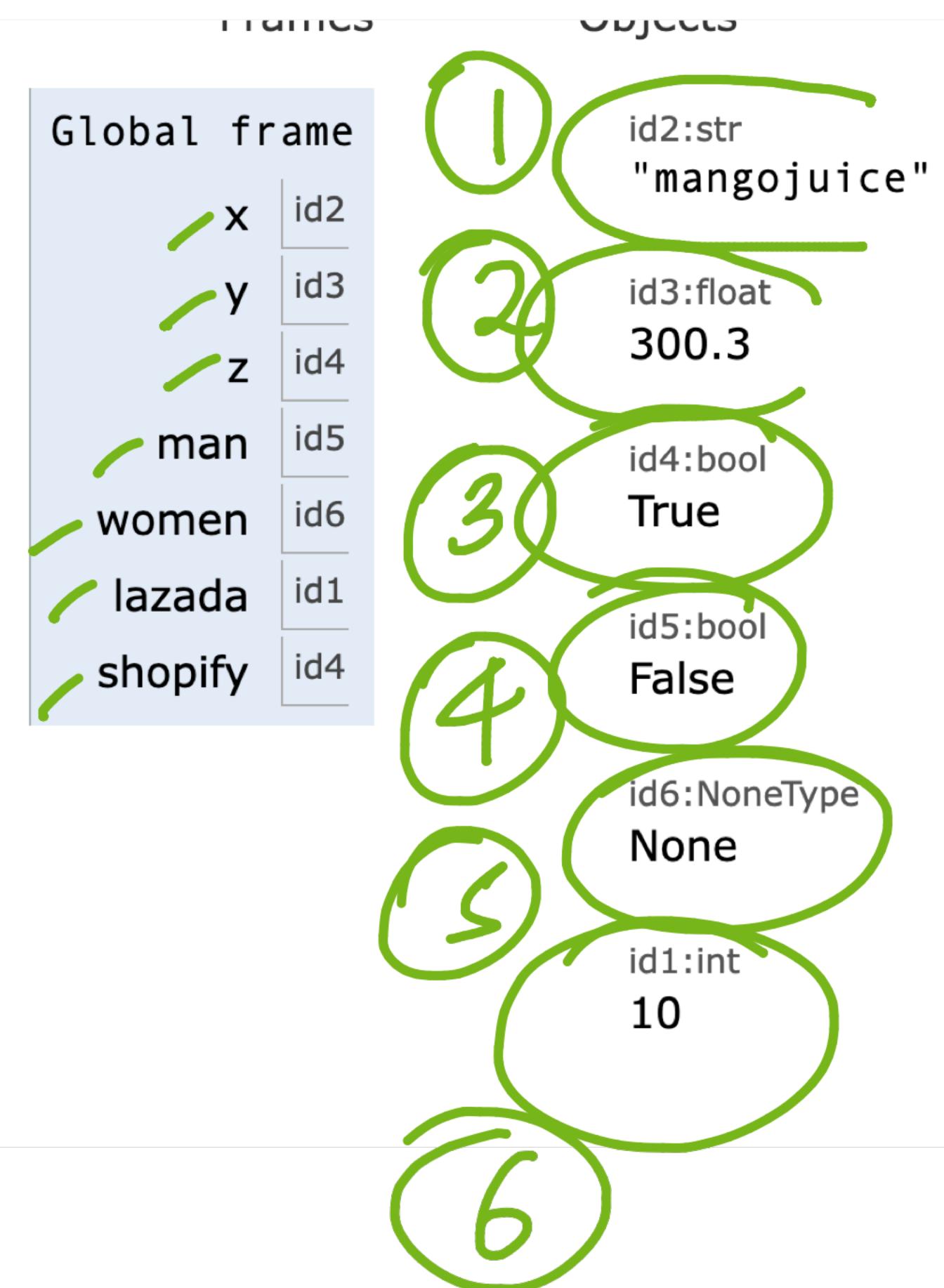
2010 prime_minister = mms
2020 prime_minister = nm



5

```
x = 10  
x = 'mangojuice'  
y = 300.30  
z = True  
man = False  
women = None  
lazada = 10  
shopify = True
```

Names = 7
Objects = 6



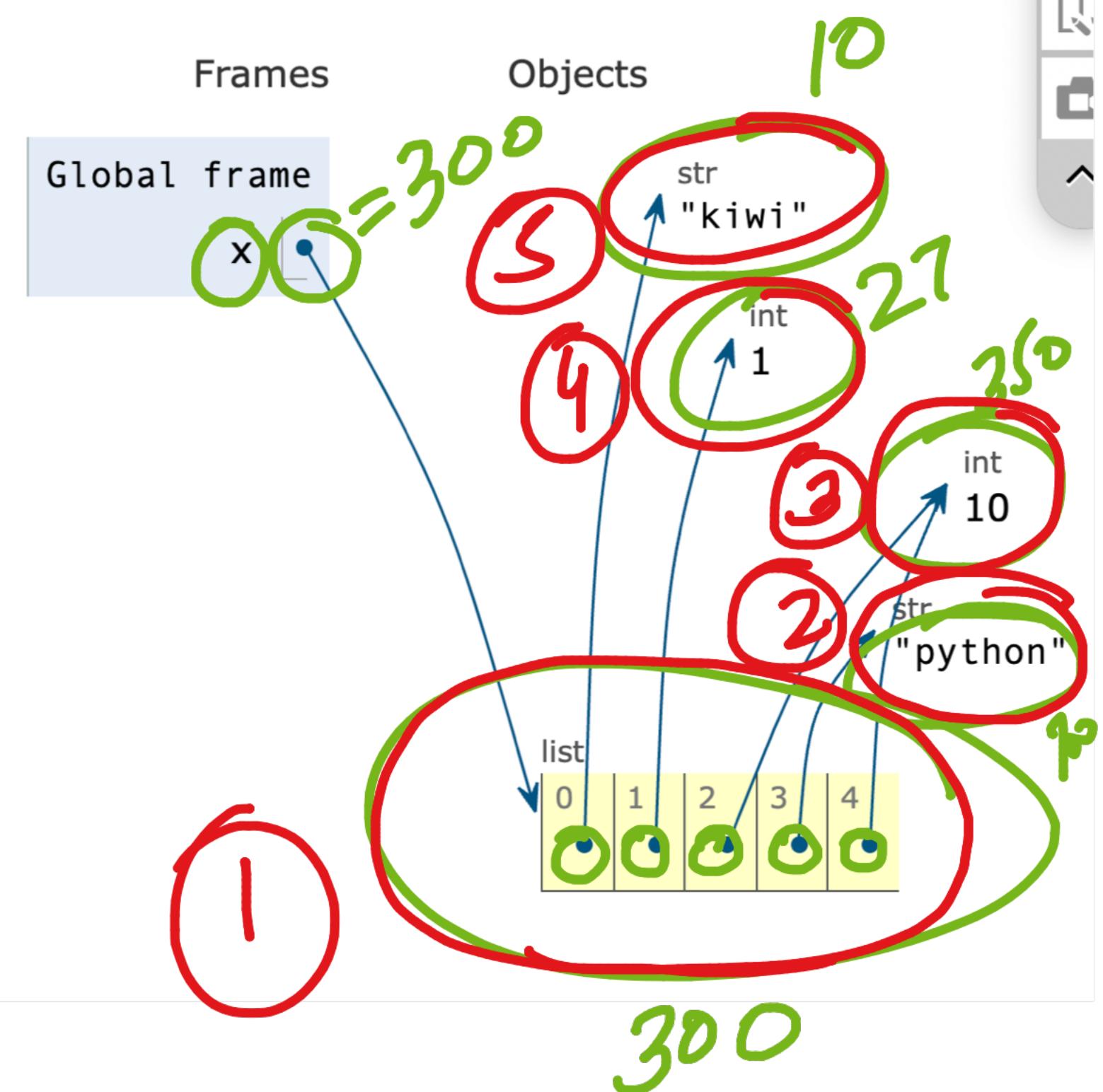
Code in Python 3.6

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```
x = ['kiwi', 1, 10, 'python', 10]
```

names = 1

objects = 5



Code in Python 3.6

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```
x = {'python':3, 'java':8}
```

names = 1
objects = 5

1 key value pair

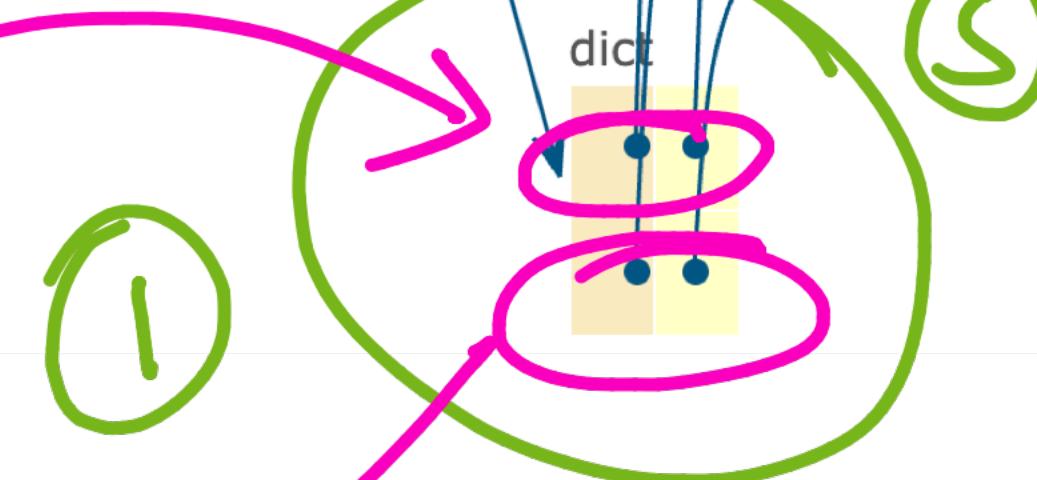
Another key value pair

Frames

Global frame

x

Objects



Code in Python 3.6

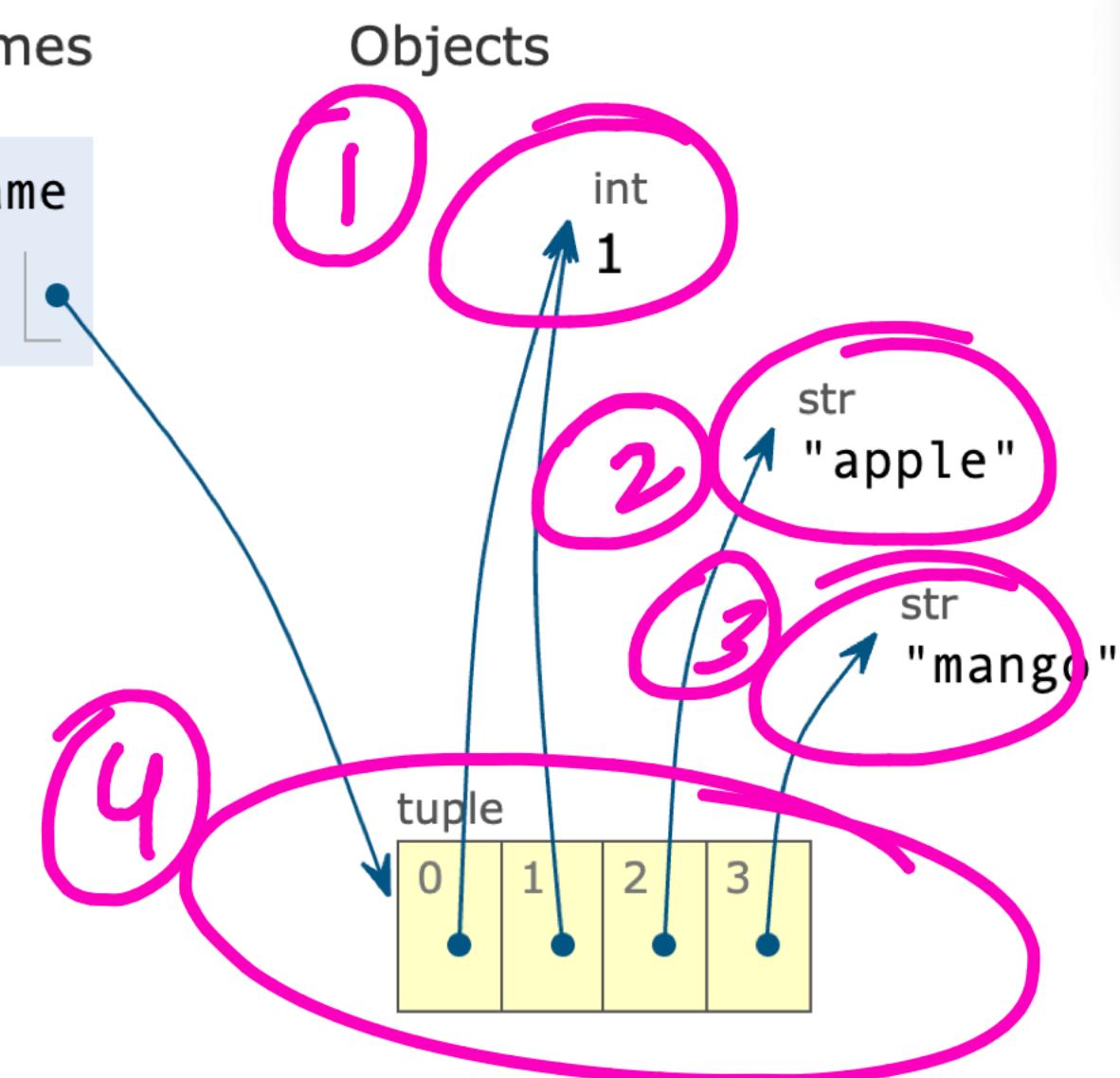
(drag lower right corner to resize code editor)

```
x = (1,1,'apple','mango')
```

Objects = 4
names = 1

Frames

Global frame
x



code in Python 3.6

(drag lower right corner to resize code editor)

```
x = {1,1,'apple','mango',1,'mango','apple'}
```

objects = 4

Set does not
allow duplicates.

Frames

Global frame

x

Iname

Objects

int

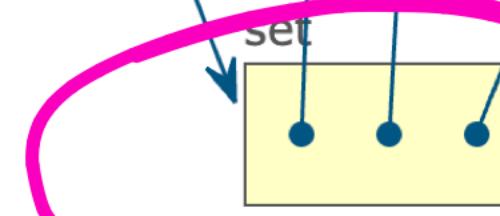
1

str

"mango"

str

"apple"



code in Python 3.6

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```
x = [(1,2),(3,4)]
```

objects = x

that just executed
t line to execute

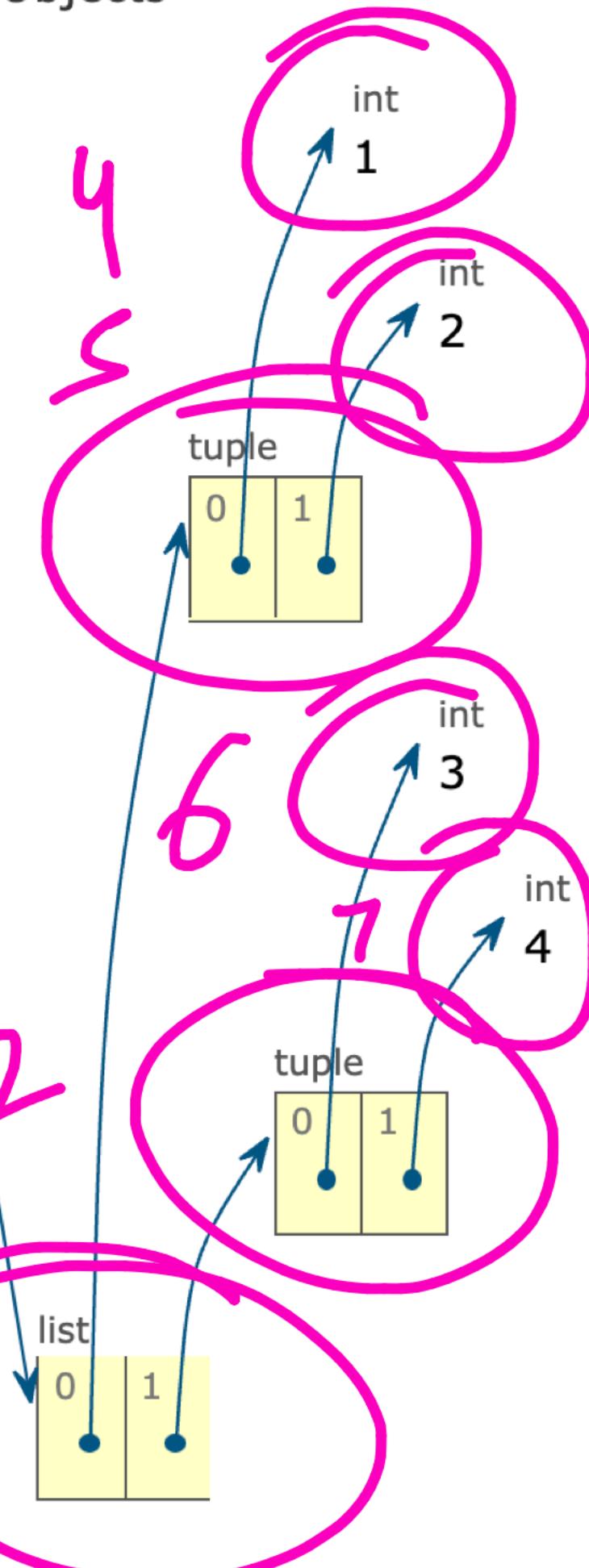
Frames

Global frame



1 name

Objects



code in Python 3.6

(drag lower right corner to resize code editor)

```
x = [(1,2),1,2,{1:2,3:4},{1,1,1,1}]
```

objects = 8

Line that just executed
Next line to execute

<< First < Prev Next > Last >>

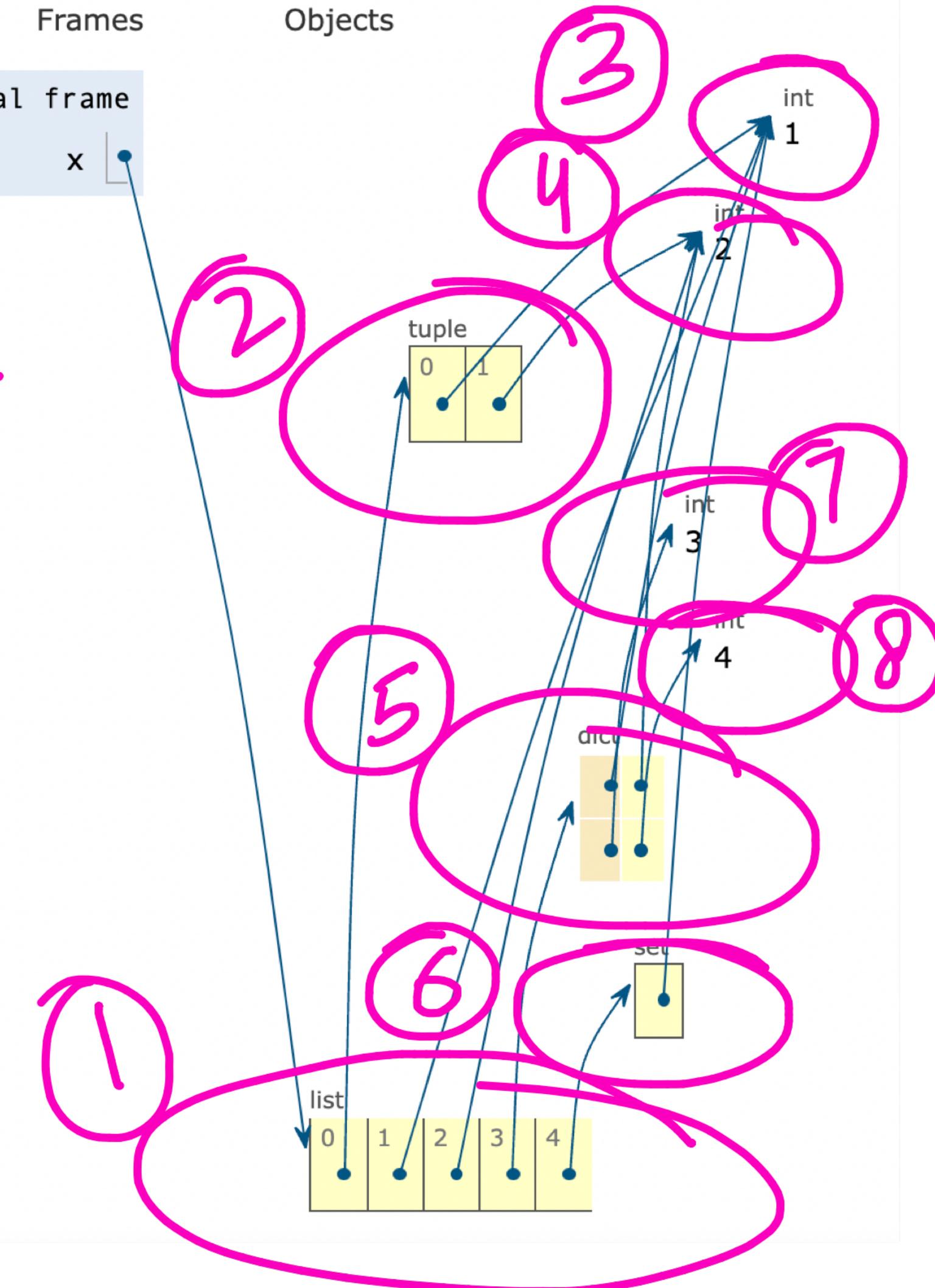
Done running (1 steps)

Frames

Global frame

x

Objects



code in Python 3.6

(drag lower right corner to resize code editor)

```
chull = {'integer': 23, 'boolean': True,  
'floating': 45.32, 'Null': None, 'smalllist': [3, 4],  
'smalltuple': (5), 'sethai': {5, 6, 5}}
```

1 dict

7 strings

5 integers

1 float

1 Non

1 boolean

1 set

1 list

1 tuple

19

First Name	Last Name	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65

Q1 If I give you any column value
 and ask you another column
 value. Create a data structure/s.
 * Always unique. ✓