

Riddle me this! 🐍

```
>>> a = {}  
>>> a = a[0] = {}  
>>> print(a)
```

```
>>> b = {}  
>>> b[0] = b = {}  
>>> print(b)
```

Riddle me this! 🐍

```
>>> a = {}  
>>> a[a[0]] = {}  
>>> print(a)
```

```
a={0: {...}}
```

```
>>> b = {}  
>>> b[0] = b = {}  
>>> print(b)
```

```
b={}
```

```
a = a[0] = {}
```

~

```
temp = {}  
a, a[0] = (temp, temp)
```

Let's investigate `dis`!

```
from dis import dis
```

```

>>> dis("""
...     a = a[0] = {}
...     """)

2      0 BUILD_MAP                0
      2 DUP_TOP
      4 STORE_NAME                0 (a)
      6 LOAD_NAME                 0 (a)
      8 LOAD_CONST                0 (0)
     10 STORE_SUBSCR
     12 LOAD_CONST                1 (None)
     14 RETURN_VALUE

```

*the [dis documentation](#) has more info on opcodes.

** DUP_TOP was replaced by COPY since 3.11

THANK YOU!



github.com/IljaManakov/lets-investigate-dis