

# ARGUMENT NUANCES



# SETUP

- In Python function invocations, *copies* of the values of arguments are used to initialize the parameters. This style of parameter passing is known as *pass by value*.
- Because copies are used, the values of the arguments *cannot* be modified within the function being invoked.



# PYTHON FILES

## Program `cautionary.py`

```
import tale

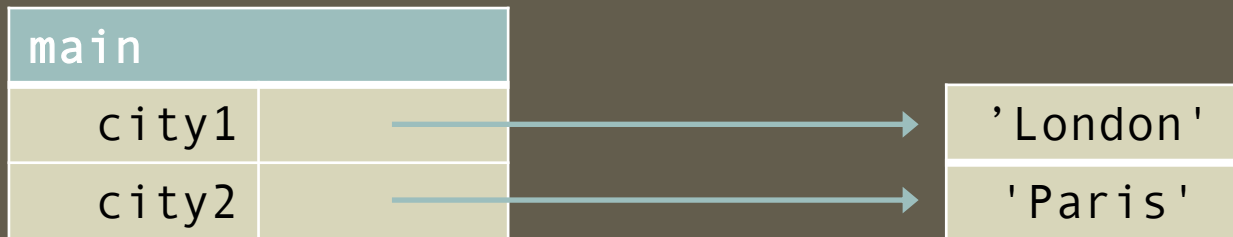
city1 = 'London'
city2 = 'Paris'

tale.f( city1, city2 )

print( city1, city2 )
```

## Module `tale.py`

```
def f( x, y ) :
    rmbr = x
    x = y
    y = rmbr
```



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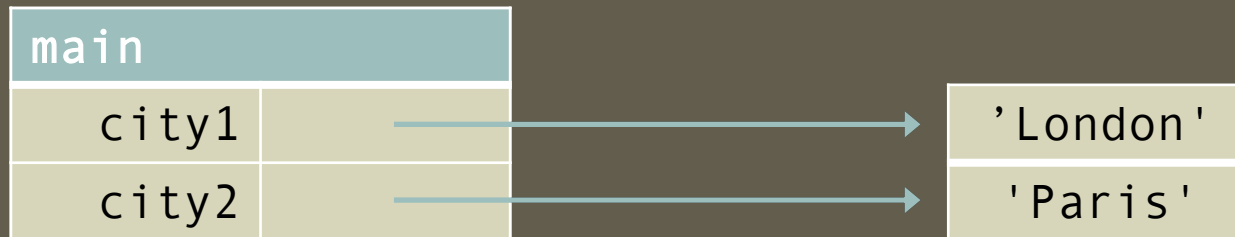
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## Module date.py

```
def f( x ) :  
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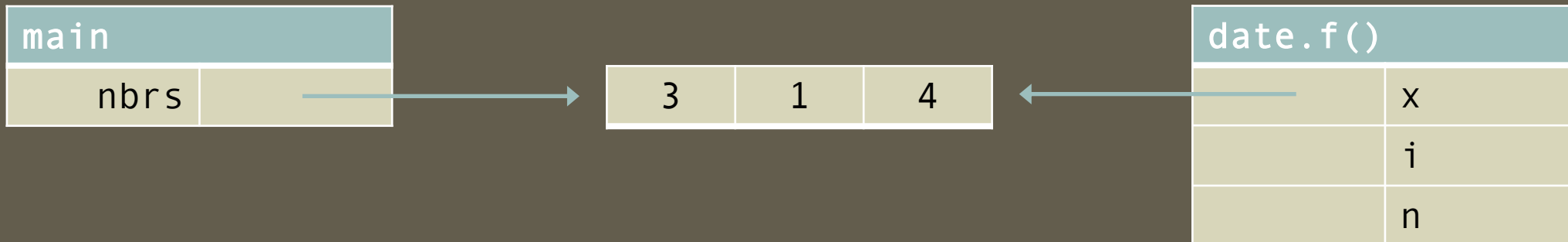
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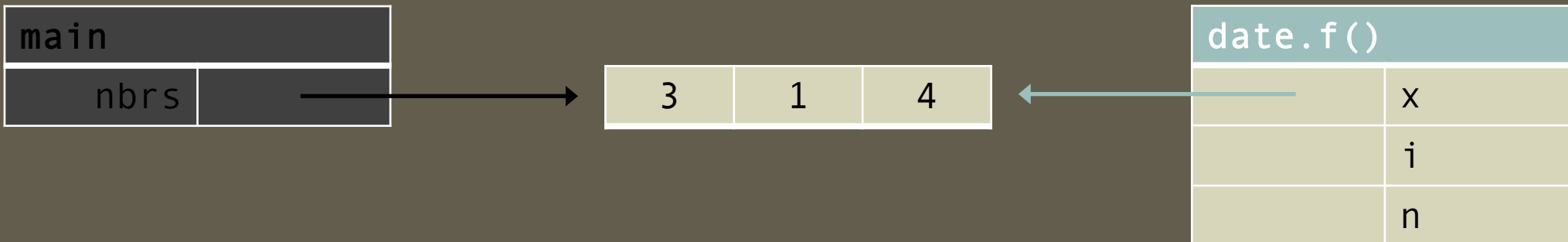
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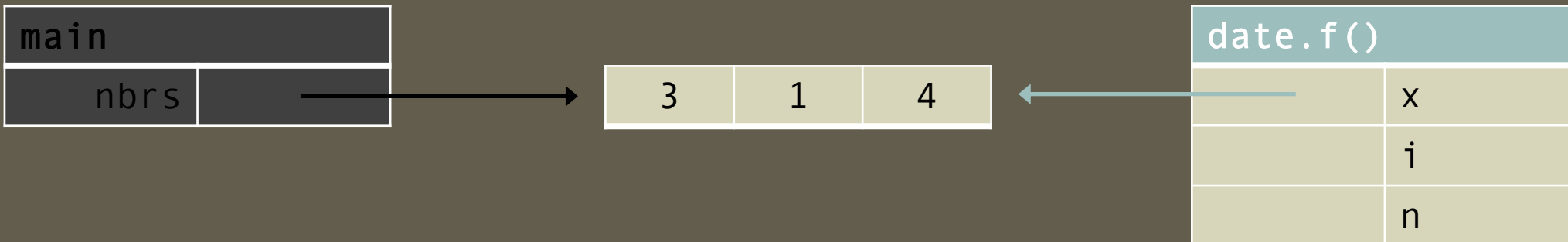
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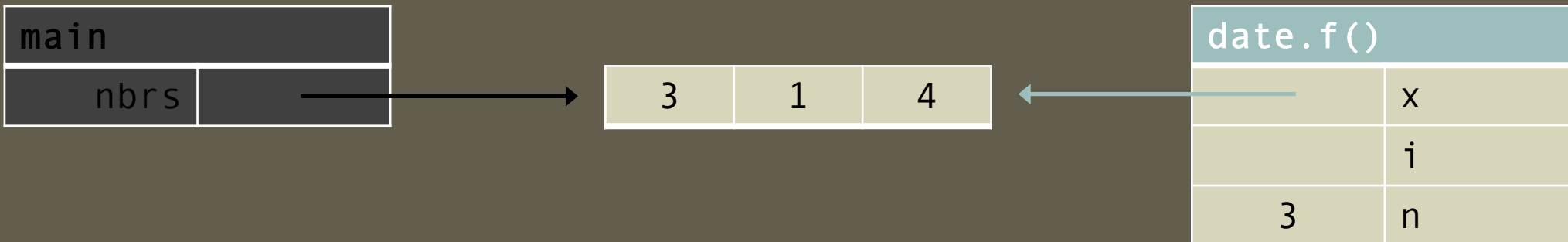
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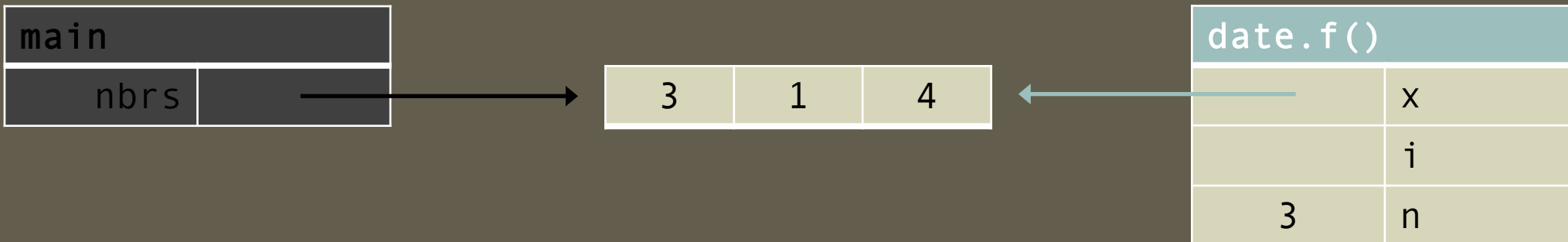
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main	
nbrs	→

3	1	4
---	---	---

date.f()	
	x
0	i
3	n

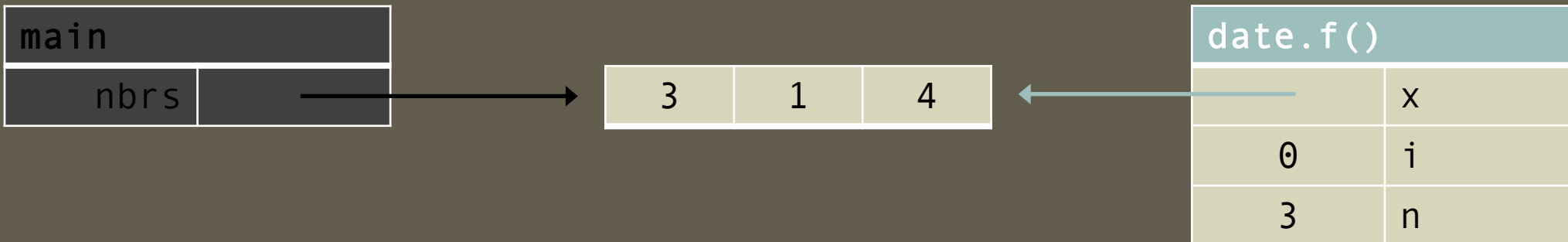
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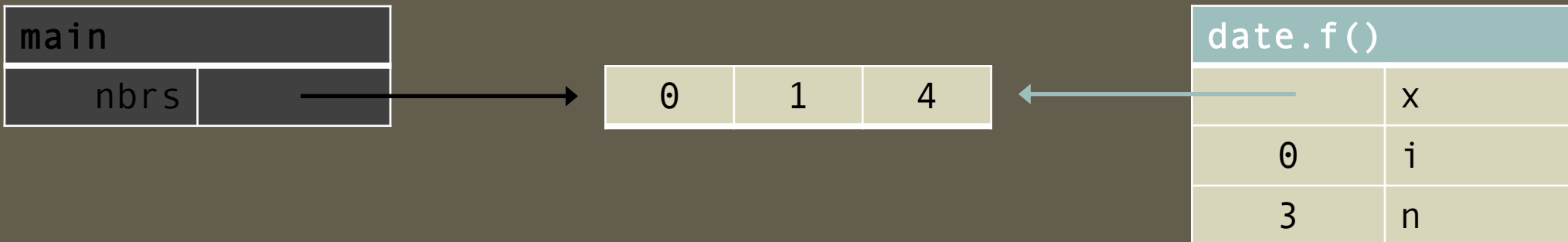
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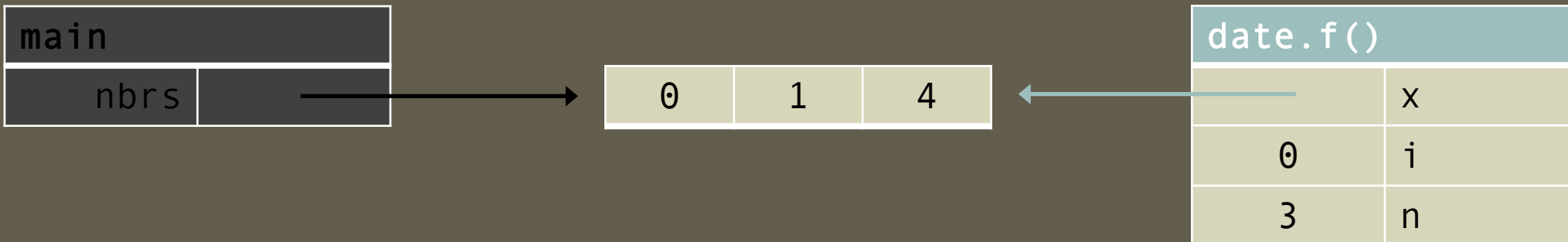
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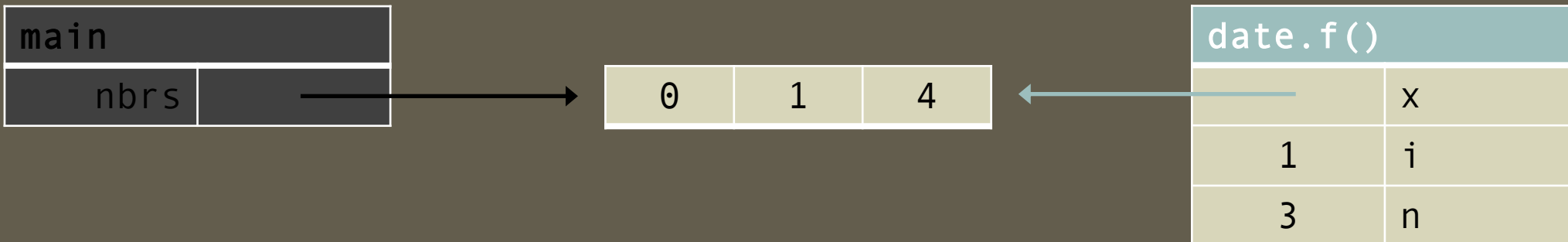
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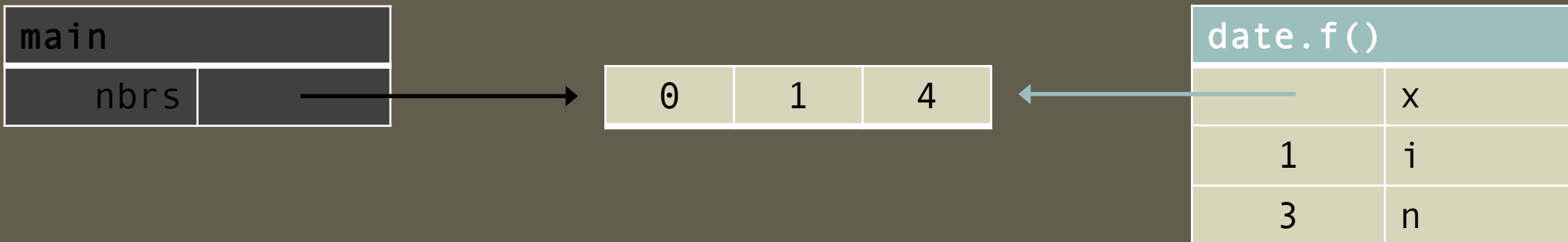
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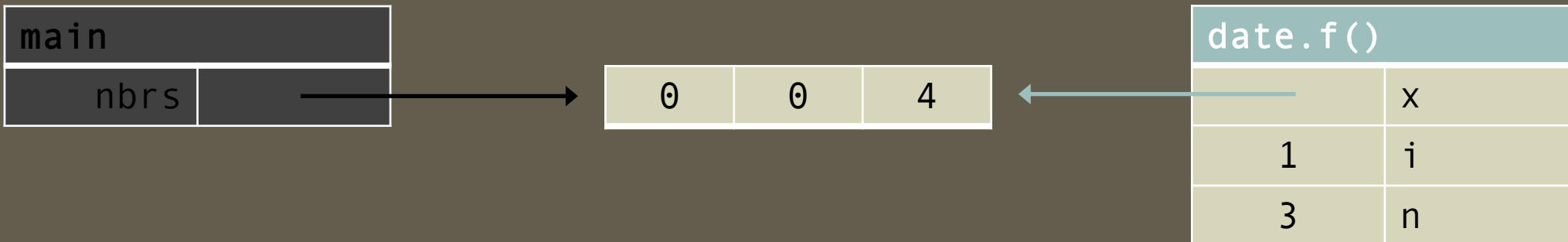
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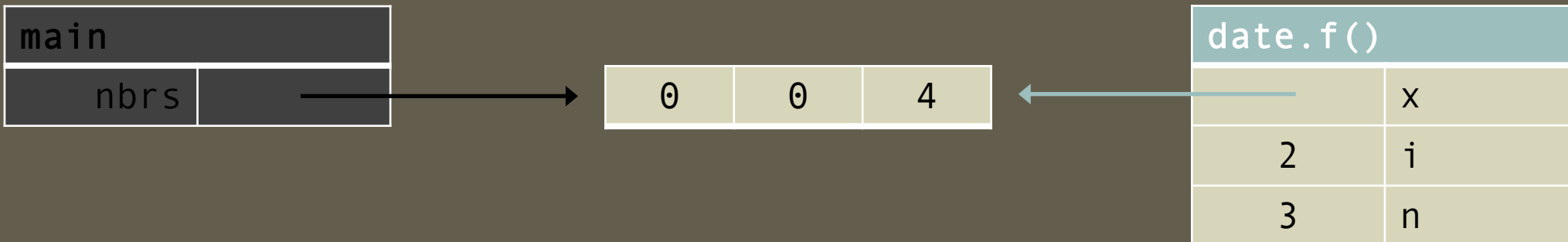
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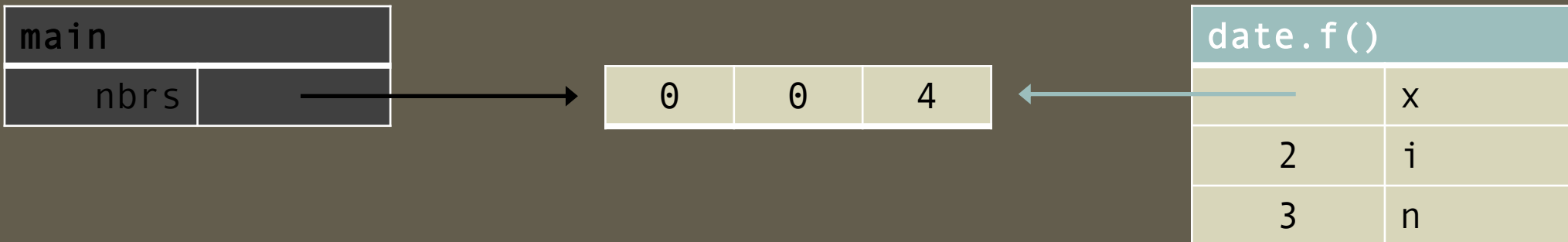
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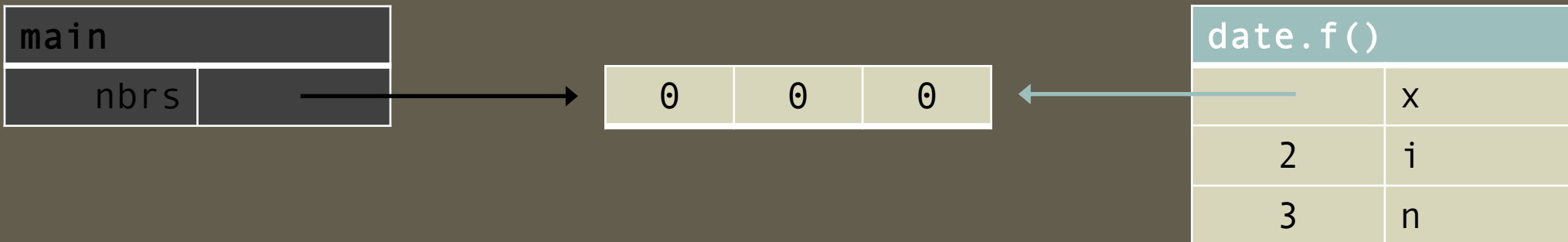
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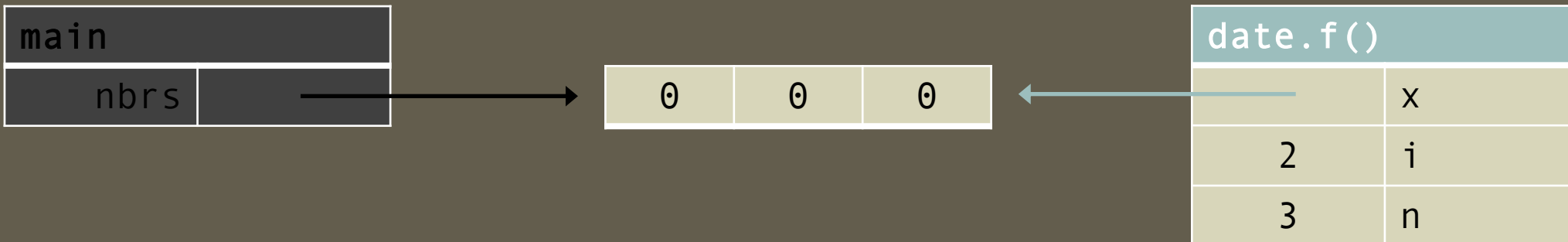
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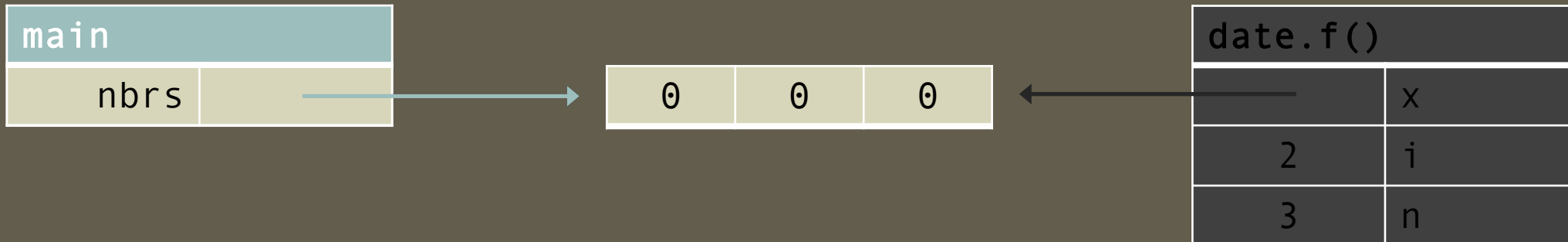
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