

Variables and References in Python

Names

```
>>> s = "TAGAGAATTCTA"  
>>>
```

Objects

References

s

"TAGAGAATTCTA"

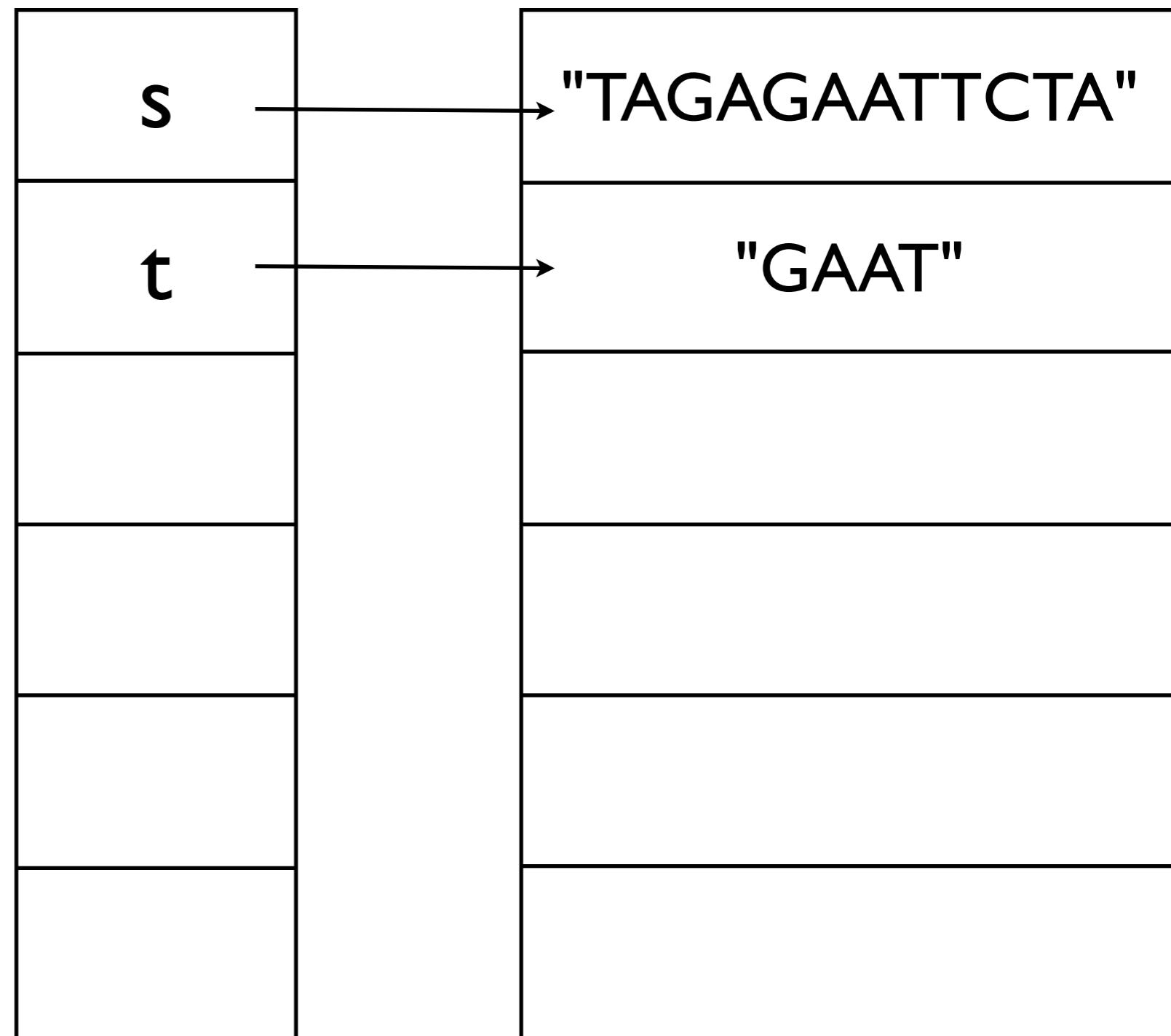


Names

```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>>
```

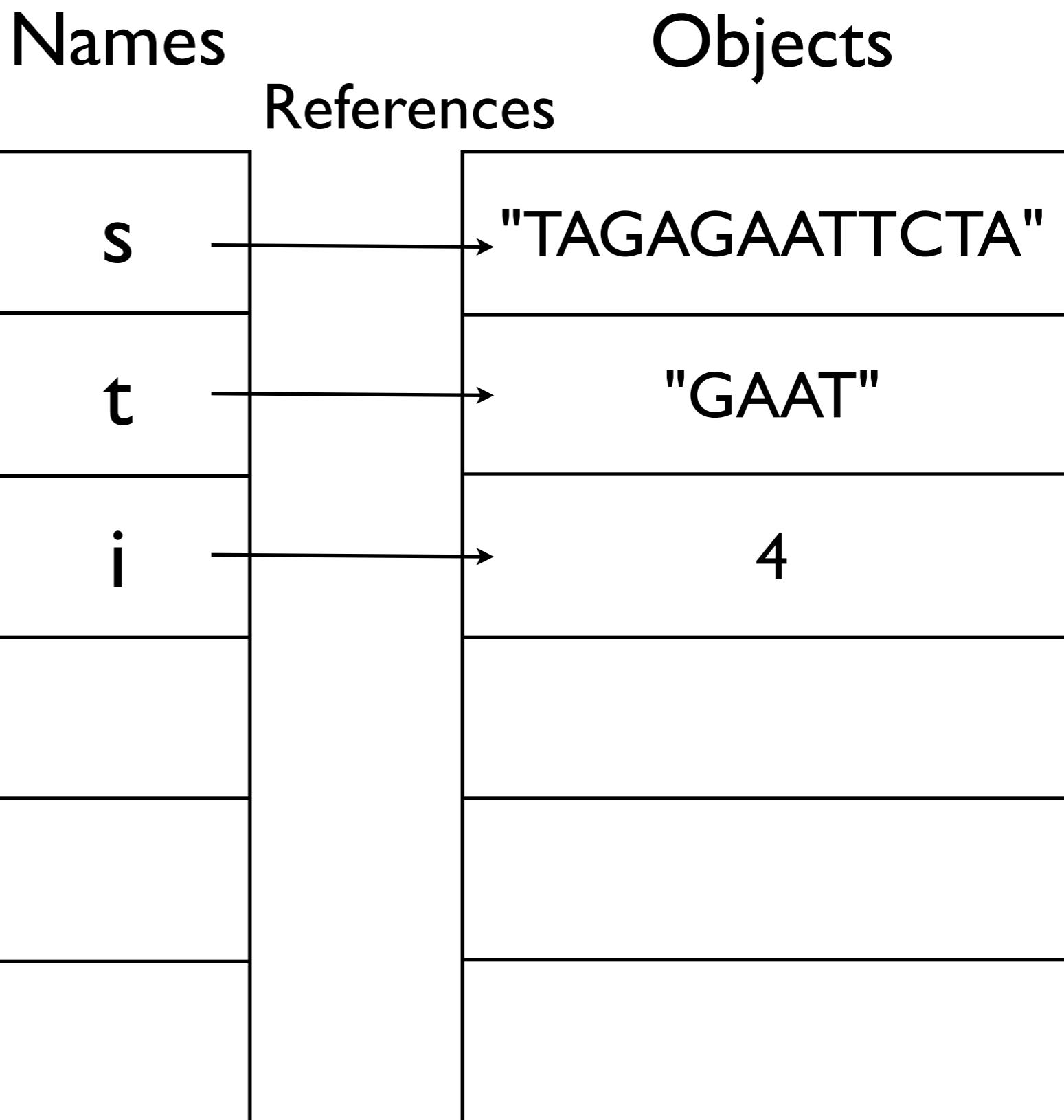
Objects

References



```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>>
```

Strings have a
“find” method

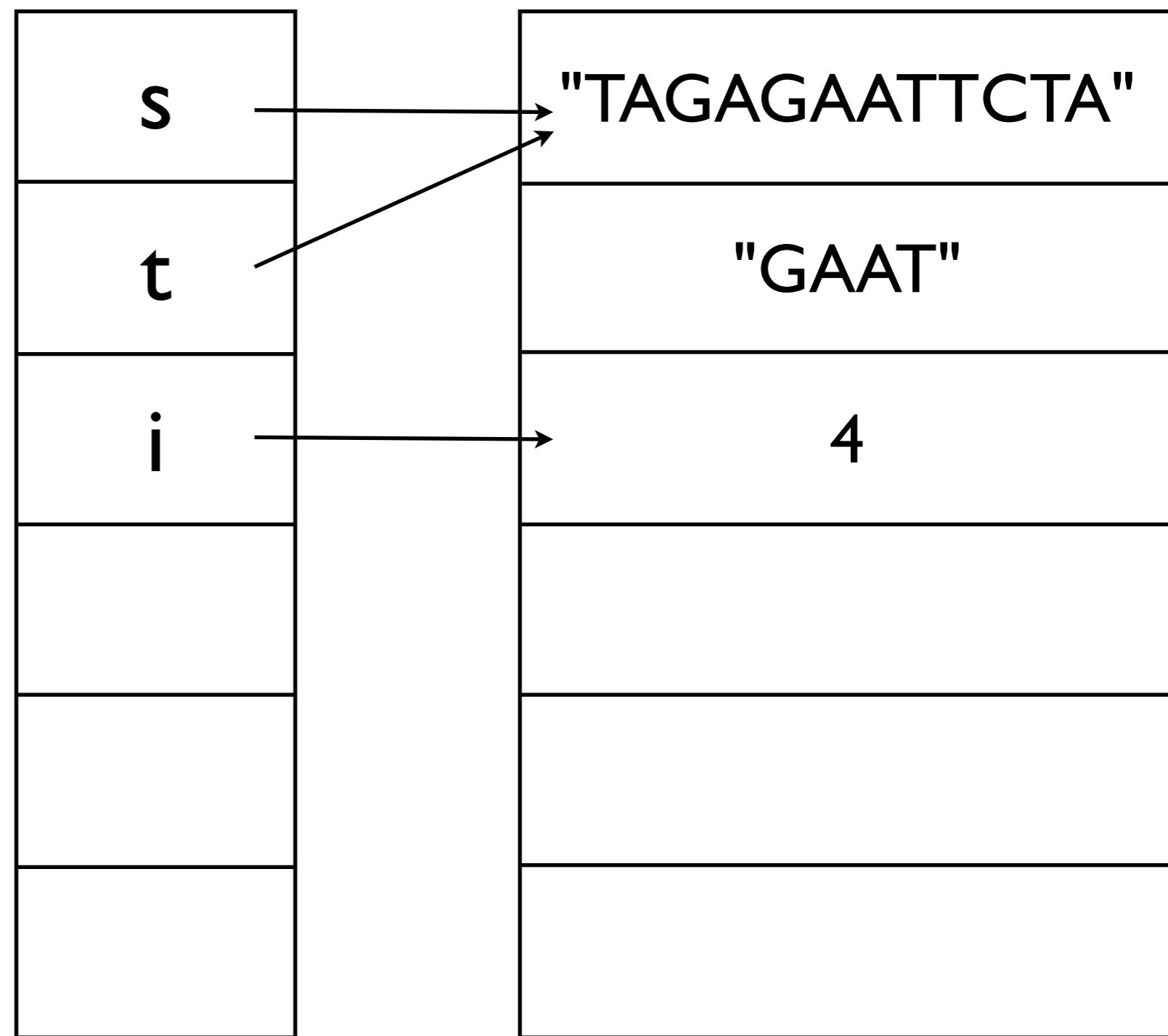


Names

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```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>> t = s  
>>>
```

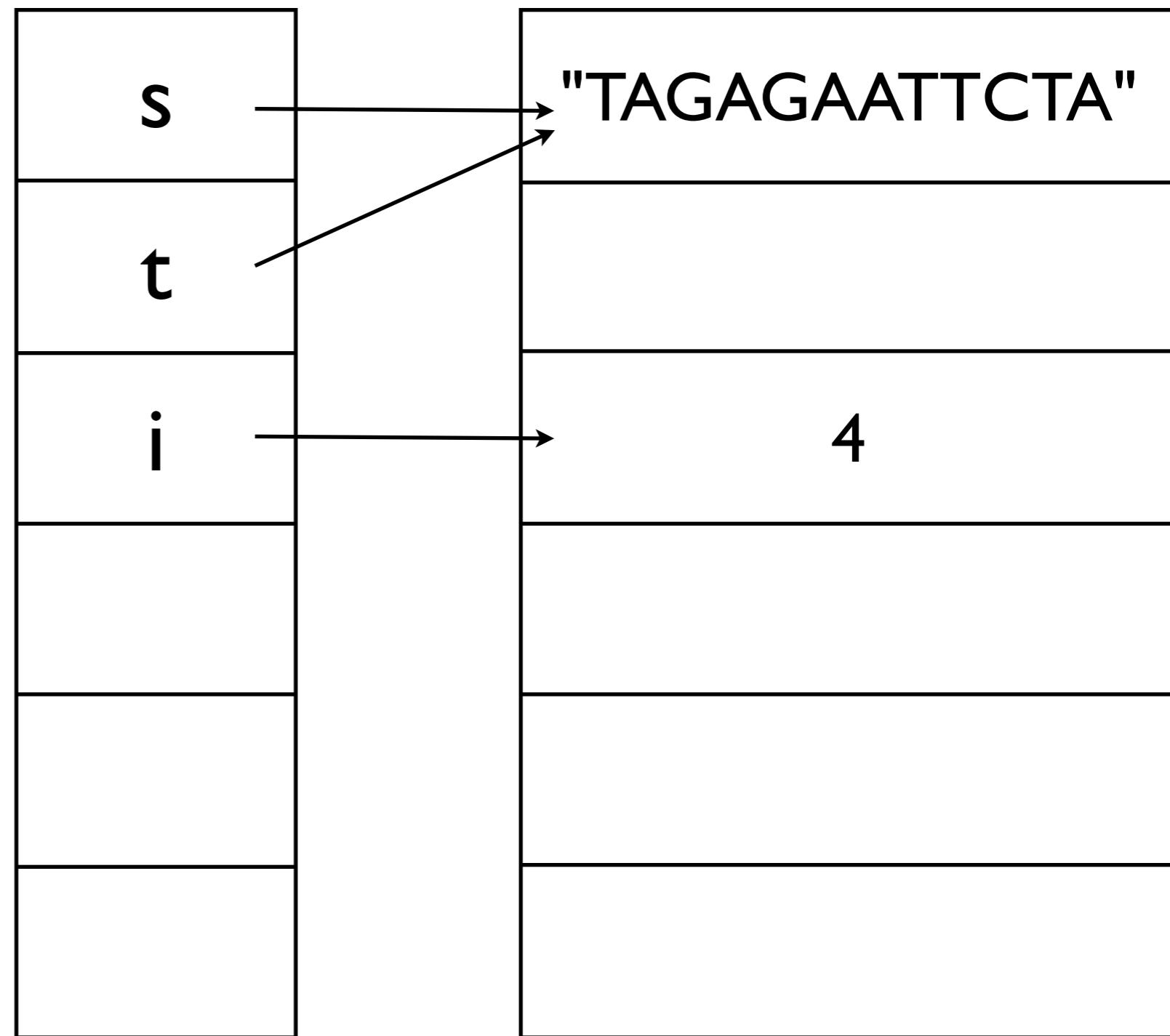


Names

Objects

References

```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>> t = s  
>>>
```

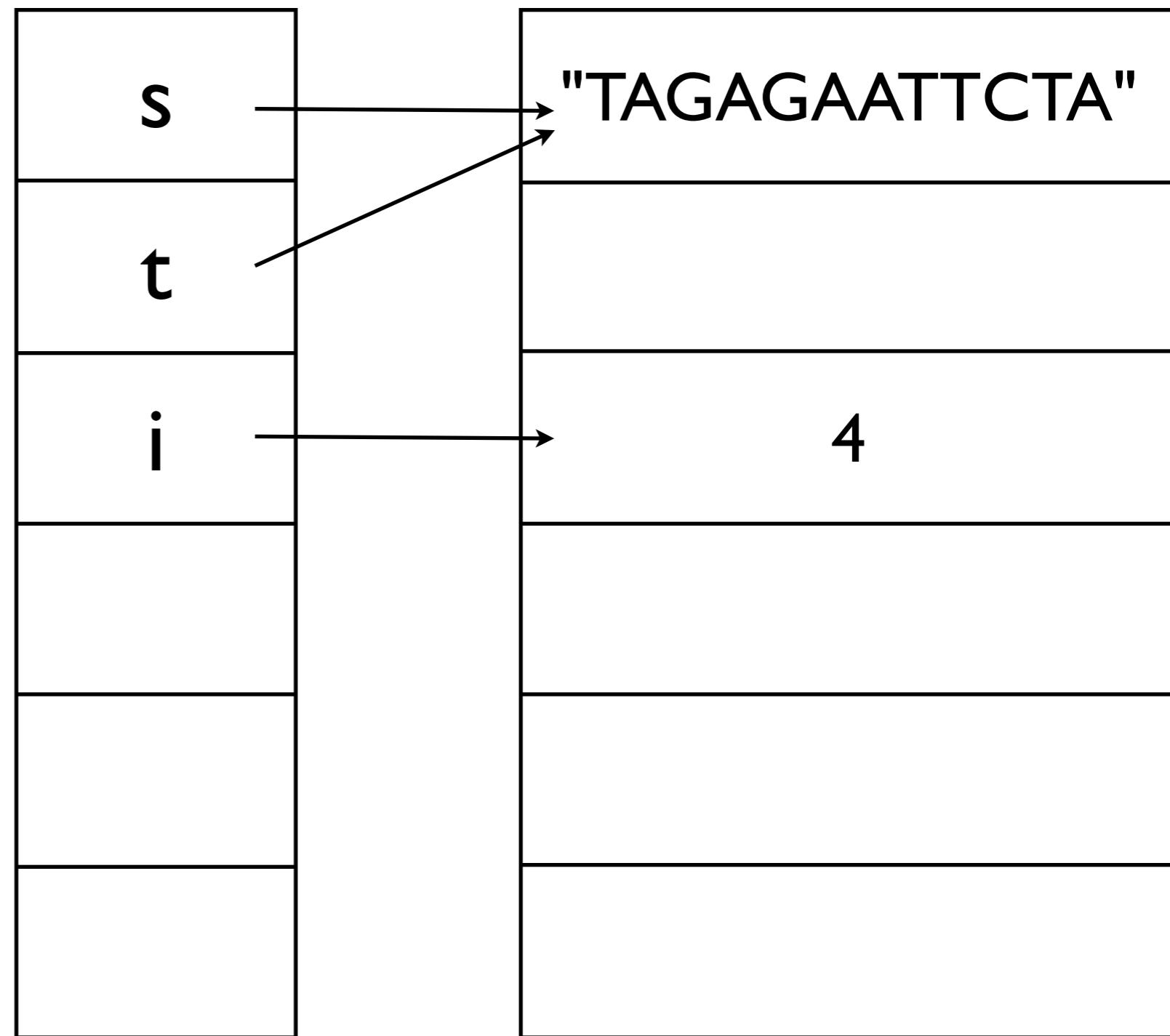


Names

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```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>> t = s  
>>> a  
Traceback (most recent call last):  
  File "<stdin>", line 1, in ?  
NameError: name 'a' is not defined  
>>>
```

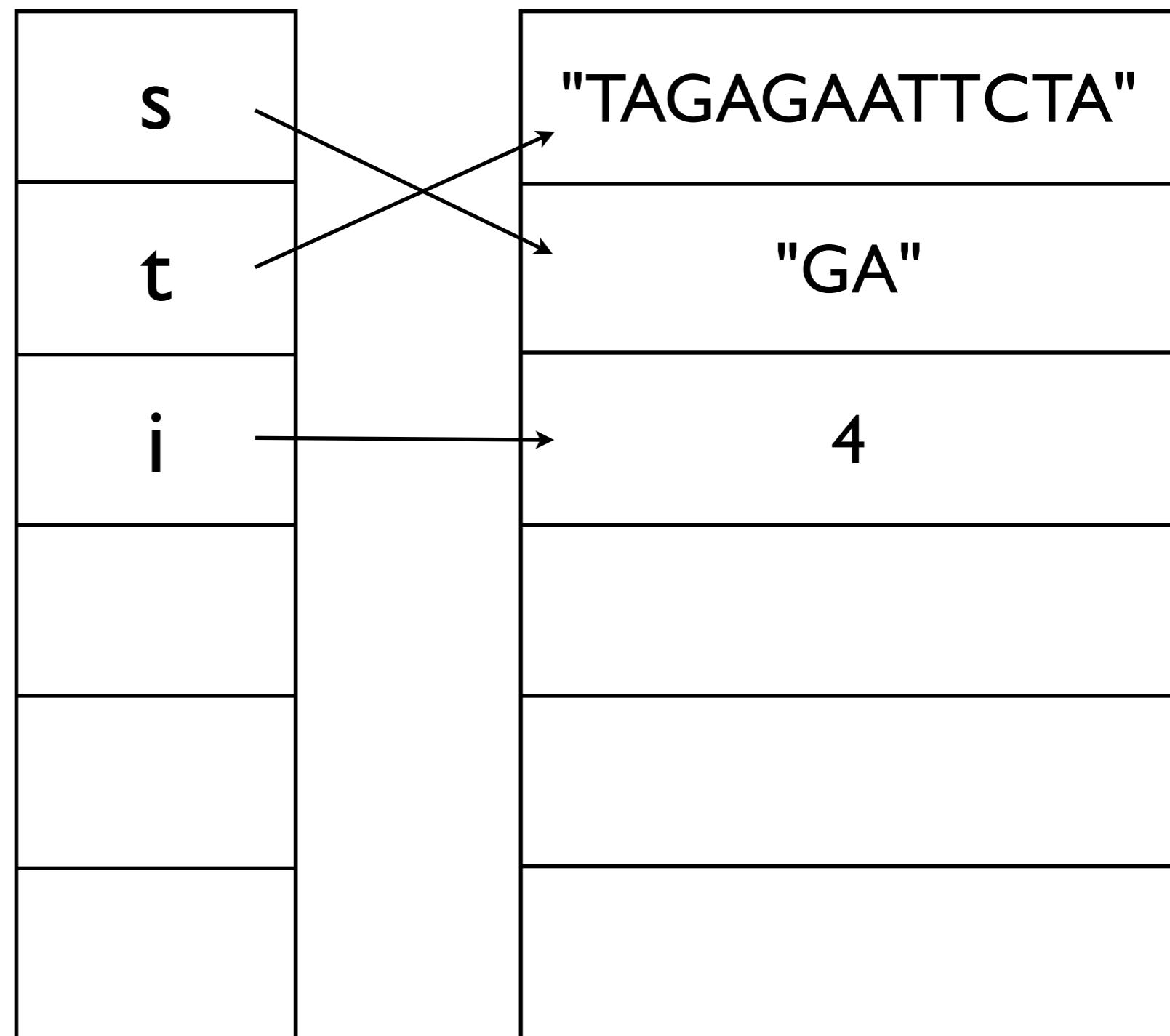


Names

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References

```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>> t = s  
>>> a  
Traceback (most recent call last):  
  File "<stdin>", line 1, in ?  
NameError: name 'a' is not defined  
>>> s = "GA"  
>>> print t  
TAGAGAATTCTA  
>>>
```

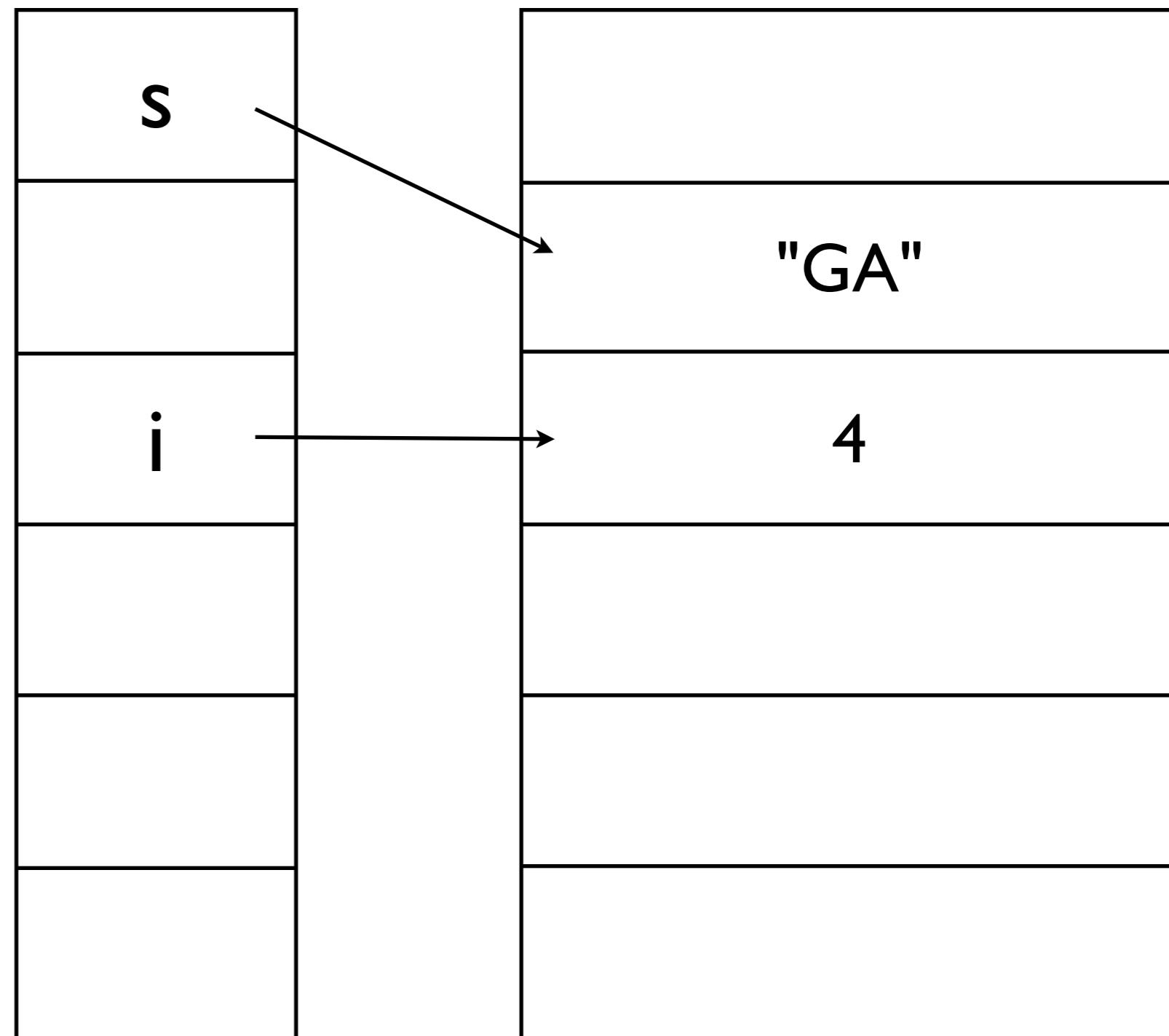


Names

Objects

References

```
>>> s = "TAGAGAATTCTA"  
>>> t = "GAAT"  
>>> i = s.find(t)  
>>> print i  
4  
>>> t = s  
>>> a  
Traceback (most recent call last):  
  File "<stdin>", line 1, in ?  
NameError: name 'a' is not defined  
>>> s = "GA"  
>>> print t  
TAGAGAATTCTA  
>>> del t  
>>>
```

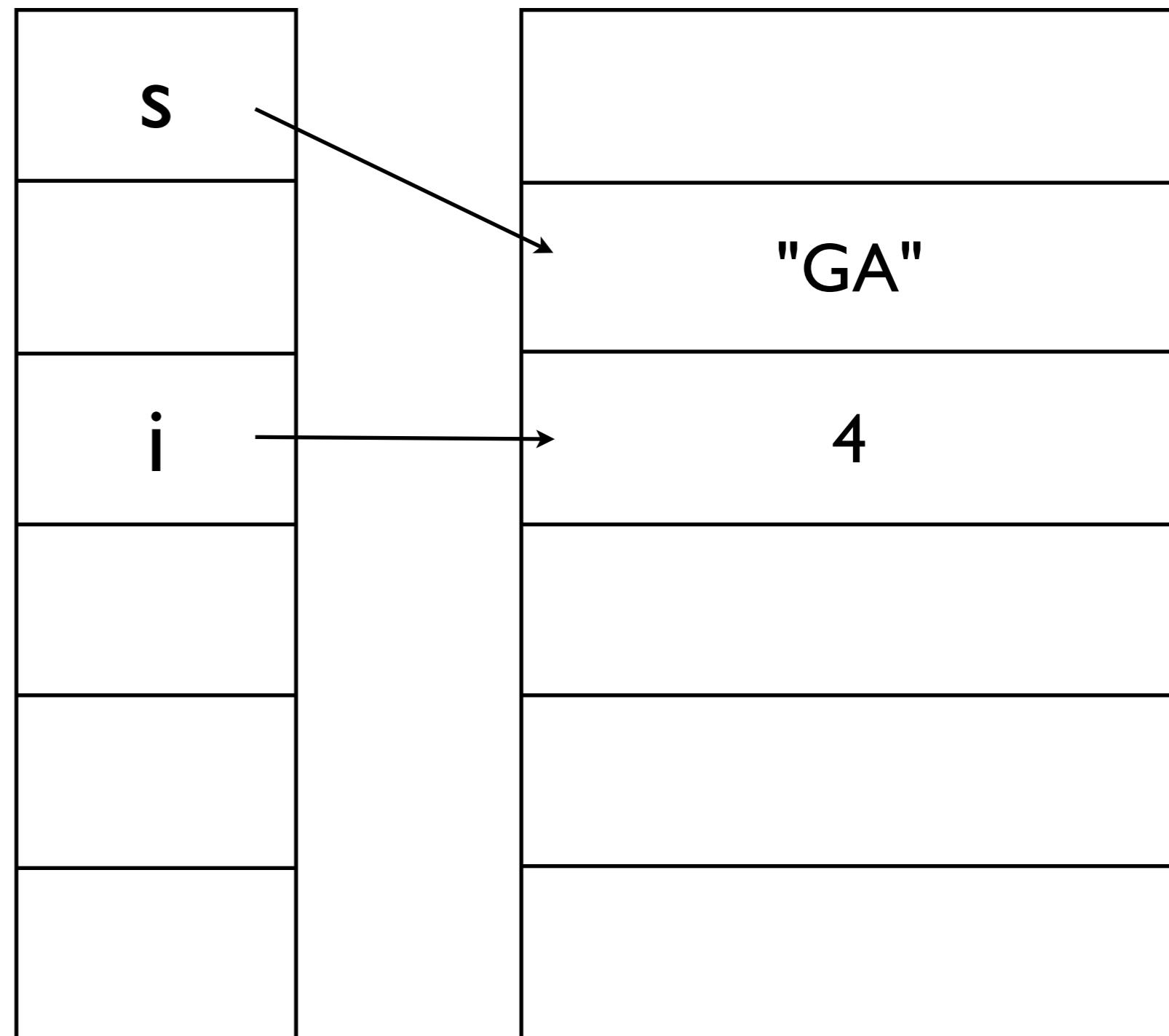


Names

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```
>>> s = "TAGAGAATTCTA"
>>> t = "GAAT"
>>> i = s.find(t)
>>> print i
4
>>> t = s
>>> print a
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
NameError: name 'a' is not defined
>>> s = "GA"
>>> print t
TAGAGAATTCTA
>>> del t
>>> print t
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
NameError: name 't' is not defined
>>>
```



Names

Objects

References

```
>>> L1 = [2, 4]  
>>>
```

L1

[2, 4]



```
>>> L1 = [2, 4]
>>> L1.append(5)
>>>
```

Names

References

Objects

L1

[2, 4, 5]

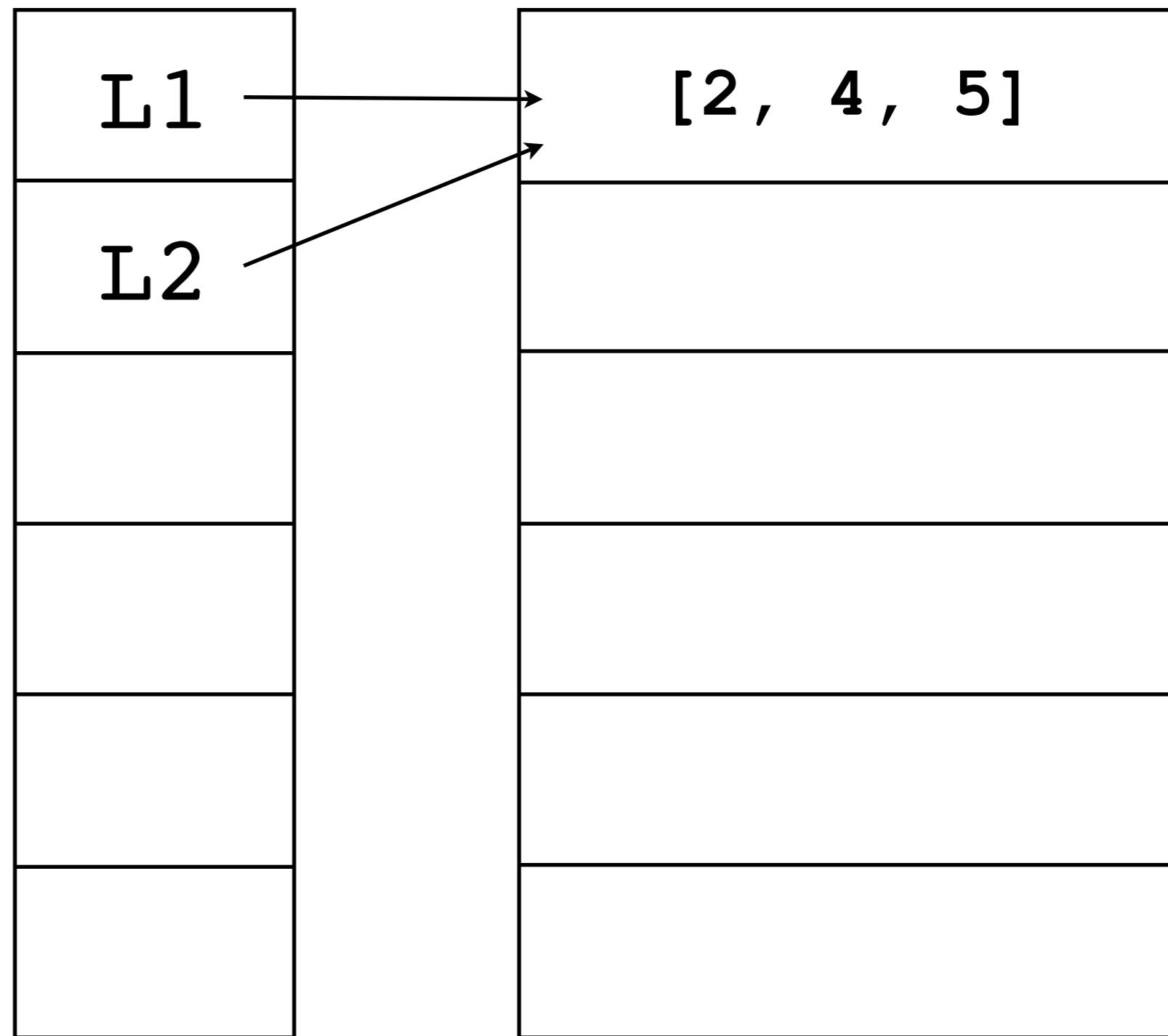


```
>>> L1 = [2, 4]
>>> L1.append(5)
>>> L2 = L1
>>>
```

Names

References

Objects

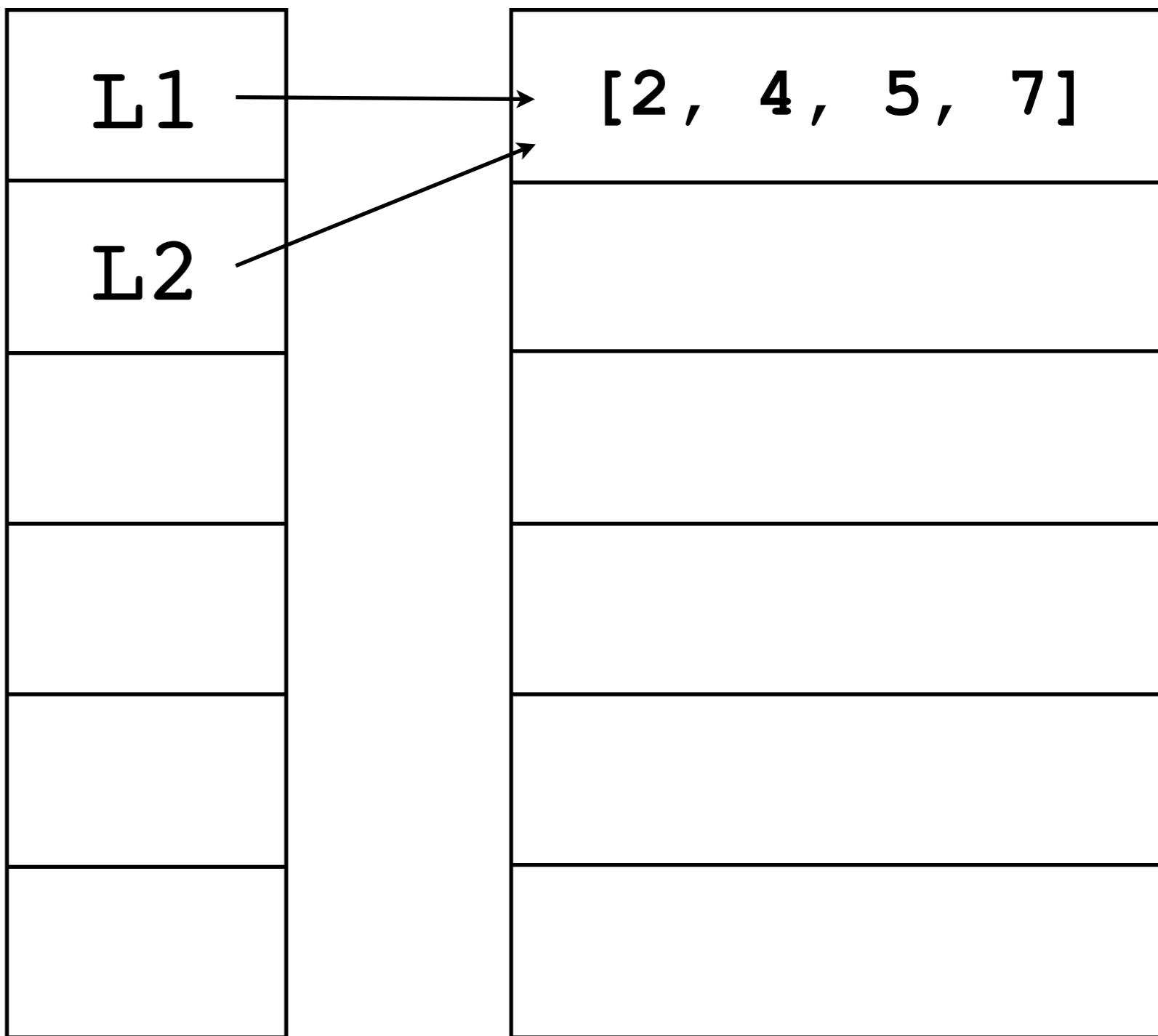


```
>>> L1 = [2, 4]
>>> L1.append(5)
>>> L2 = L1
>>> L2.append(7)
>>> print L1
[2, 4, 5, 7]
>>> print L2
[2, 4, 5, 7]
>>>
```

Names

References

Objects

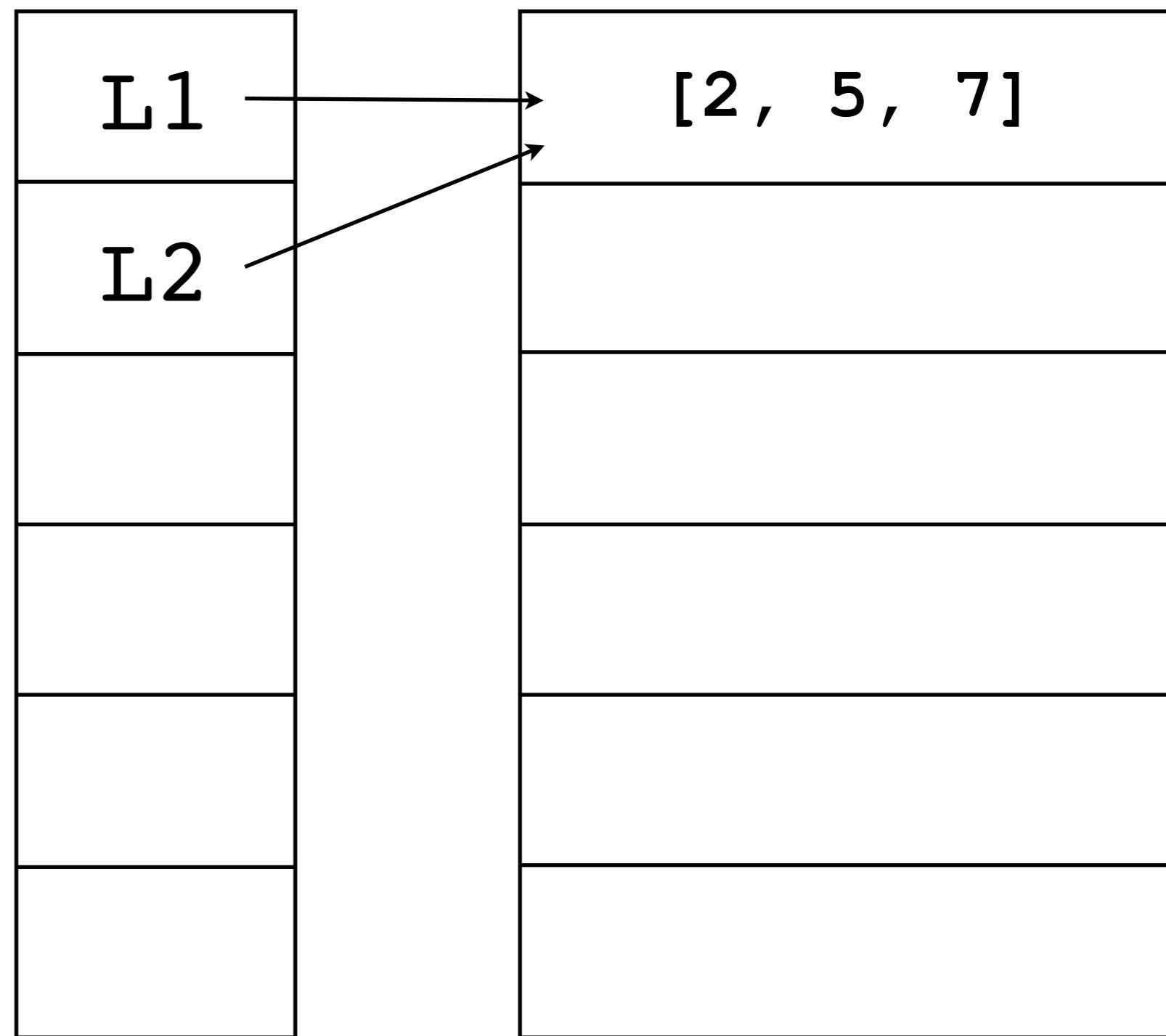


```
>>> L1 = [2, 4]
>>> L1.append(5)
>>> L2 = L1
>>> L2.append(7)
>>> print L1
[2, 4, 5, 7]
>>> print L2
[2, 4, 5, 7]
>>> del L2[1]
>>>
```

Names

Objects

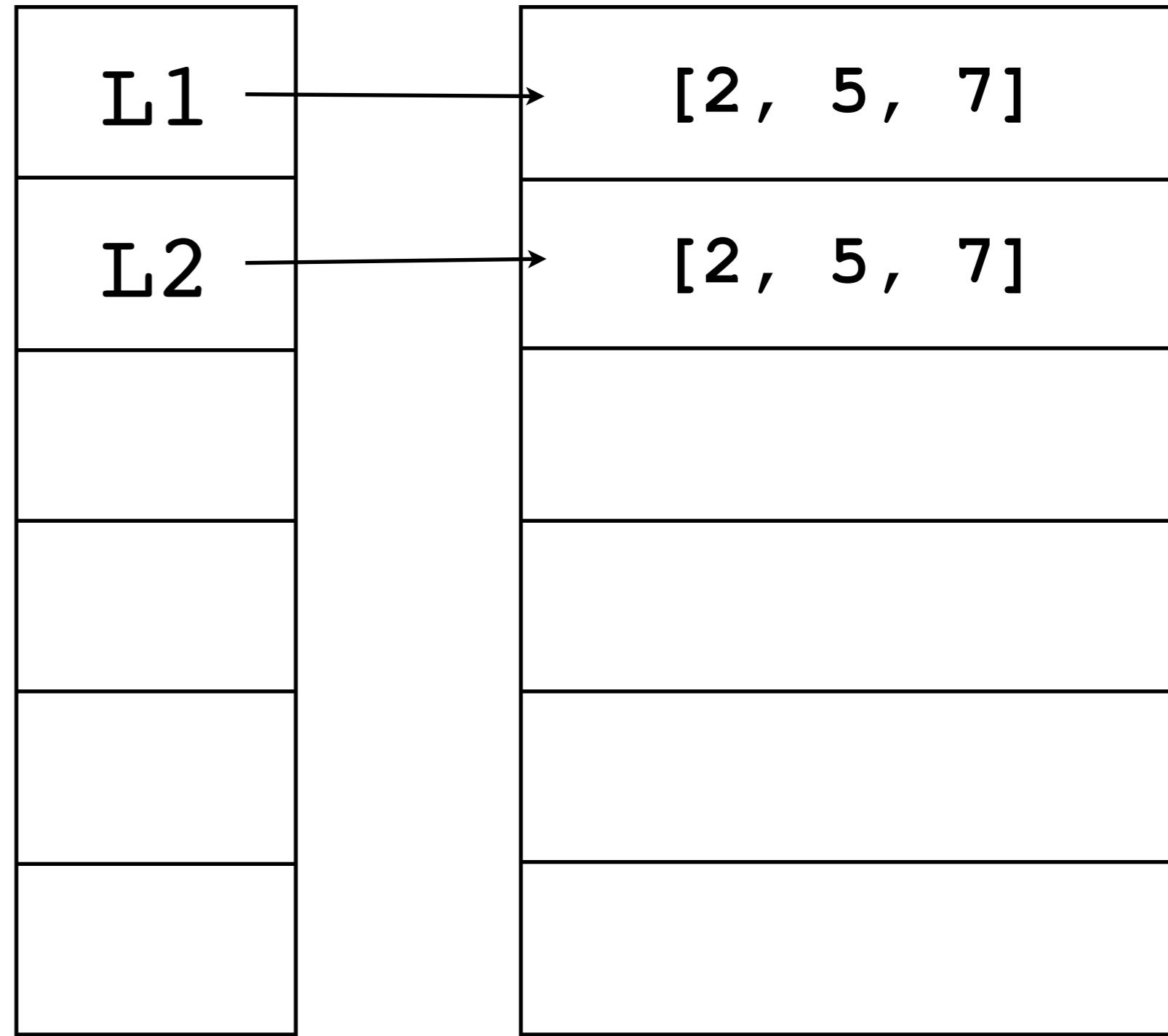
References



```
>>> L1 = [2, 4]
>>> L1.append(5)
>>> L2 = L1
>>> L2.append(7)
>>> print L1
[2, 4, 5, 7]
>>> print L2
[2, 4, 5, 7]
>>> del L2[1]
>>> L2 = L1[:]
>>> L1 == L2
True
>>>
```

Names Objects

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```
>>> L1 = [2, 4]
>>> L1.append(5)
>>> L2 = L1
>>> L2.append(7)
>>> print L1
[2, 4, 5, 7]
>>> print L2
[2, 4, 5, 7]
>>> del L2[1]
>>> L2 = L1[:]
>>> L1 == L2
True
>>> L1.reverse()
>>> L1 == L2
False
>>>
```

Names Objects

References

