

```
[1] import math
a = pow(7,4)
print(a)
```

2401

```
s = "Hi there Sam!"  
a = s.split()  
print(list(a))  
  
['Hi', 'there', 'Sam!']
```

```
[4] s = "Hi there dad!"  
a = s.split()  
print(list(a))  
  
['Hi', 'there', 'dad!']
```

```
<> [5] a = "the diameter of earth is {} kilometer"
```

```
[6] print(a.format(12742))
```

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✓ [6] print(a.format(12742))

the diameter of earth is 12742 kilometer

✓ [7] lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

✓ [8] lst[3][1][2][0]

'hello'

✓ [9] d = {'k1':[1,2,3,'tricky':{'oh','man','inception',{'target':[1,2,3,'hello']}}]}

✓ [10] d['k1'][3]['tricky'][3]['target'][3]

'hello'

✓ [11] list is "mutable" and tuple is "immutable"

False

✓ [13] def domainGet(email):

return email.split('@')[-1]

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def caught\_speeding(speed, is\_birthday):

if is\_birthday:

speeding = speed - 5

else:

speeding = speed

if speeding > 80:

return 'Big Ticket'

elif speeding > 60:

return 'Small Ticket'

else:

return 'No Ticket'

caught\_speeding(81,False)

'Big Ticket'

[20] def caught\_speeding(speed, is\_birthday):

if is\_birthday:

speeding = speed - 5

else:

speeding = speed

if speeding > 80:

return 'Big Ticket'

elif speeding > 60:

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$$\mathbb{Q}(\{x\})$$
