

# Exercises for Deck 008

## Python Dots & Named Arguments

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- 1) For each of the following determine whether the parentheses create a tuple, call, delimited expression (parenthesized expression), or target list.
  - a) `print("hello")`
  - b) `v = (8 // 2)`
  - c) `v = (5 == 5)`
  - d) `(9 // 2,)`
  - e) `print(9, 2)`
  - f) `(5 == 5) == (2 == 2)`
  - g) `max(5, 9,)`
  - h) `print(2 == 2.0)`
  - i) `(v, w) = 2, 3`
  - j) `v = ()`
  - k) `v = (  
    5,  
    9,  
    )`
  
- 2) Write a program that unpacks a tuple `t` into the variables `x`, `y`, and `z`.
  
  
  
  
  
  
  
  
  
  
- 3) Write a program that creates a tuple `t` of length `0`.

4) Write a program that creates a tuple t of length 1.

5) Write a program that creates a tuple t of length 2.

6) In the following code snippets, circle the tuples:

a) `a, b = 1, 2`

b) `(a, b) = 1, 2`

c) `a, b = (1, 2)`

d) `(a, b) = (1, 2)`

e) `print((1,))`

f) `print(())`

g) `(1) == (1,)`

h) `t == ((1, 2))`

i) `len(((1, 2)+(3,))+())`

7) Draw the relevant memory diagram after line 4.

```
1   a = 1
2   b = 2
3   t = (a, b)
4   u = (1, 2)
```