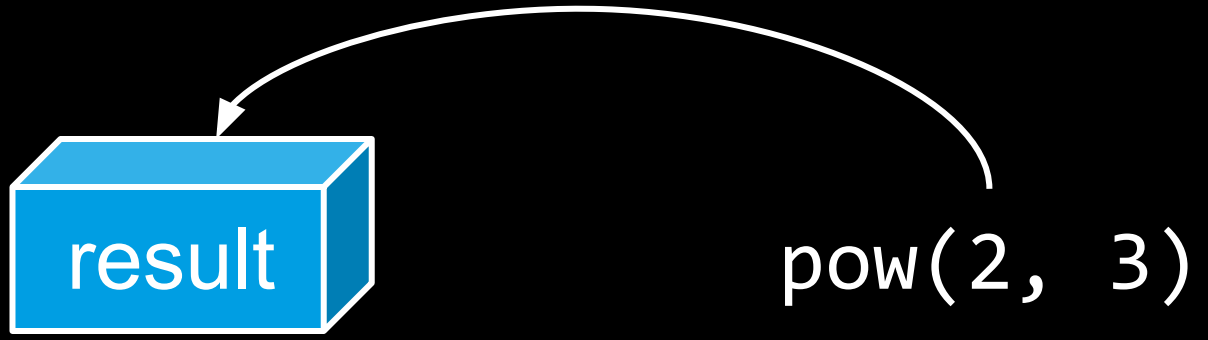
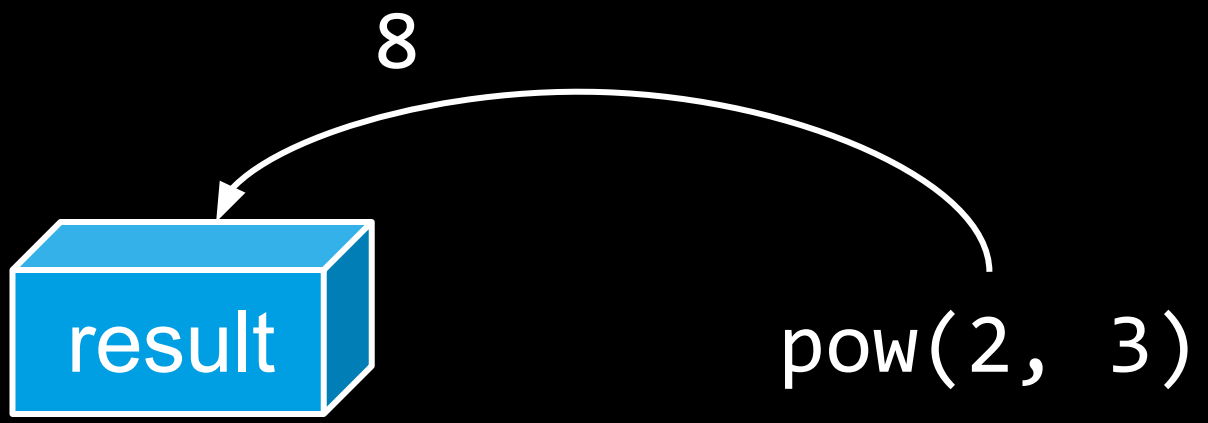
VARIABLES AND DATA TYPES

BACK


result


result
pow(2, 3)


8
result
pow(2, 3)

```
exp = 4
result = pow(2, exp)
```


```
 = 4
result = pow(2, 
```


```
)
```

```
exp = 4
result = pow(2, exp)
print(result)
```

constants

```
PI = 3.14159
UID = "ZeW"
```

naming variables

use_underscores_for_spaces
start_with_small_letter
only_0123456789_and_letters
english_and_speaking_names

operators

math

```
5 + 5
9 - 8
2 / 1
6 * 7
5 // 2
10 % 3
2**3
```

logic

```
2 == 1
2*2 > 1+3
2*2 >= 1+3
"A" < "B"
"A" < "B" and 2 == 1
"A" < "B" or 2 == 1
```

strings

```
== != > < >= <=
+
*
in / not in
[1] / [1:4]
strip()
capitalize()
title()
```

data types

integer

integer
float
} numeric

integer
float
boolean

} numeric

integer
float
boolean
string

} numeric

format strings

```
print(f"Hello {name}")
```

comments

```
# step 1: determine exponent


# step 2: calculate power


# step 3: print result
```

problem solving → problem decomposition

```
# step 1: determine exponent


# step 2: calculate power


# step 3: print result
```

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exp = 4

# step 2: calculate power
result = pow(2, exp)

# step 3: print result
print(result)
```