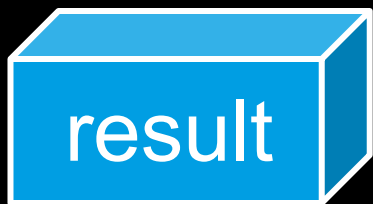
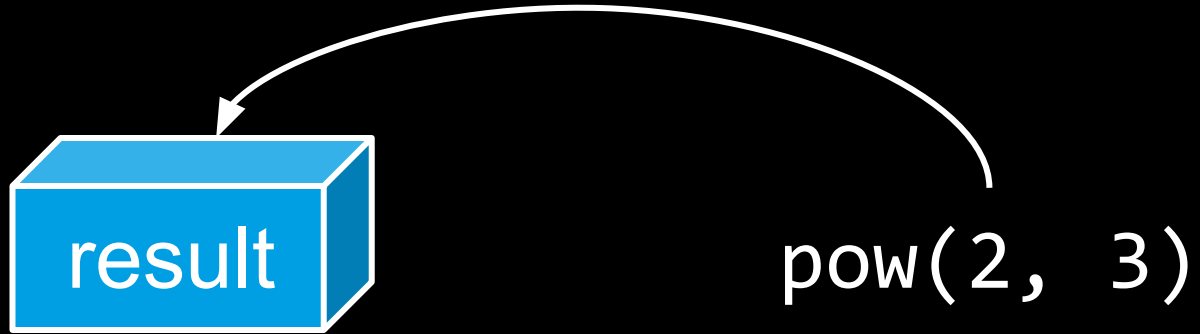
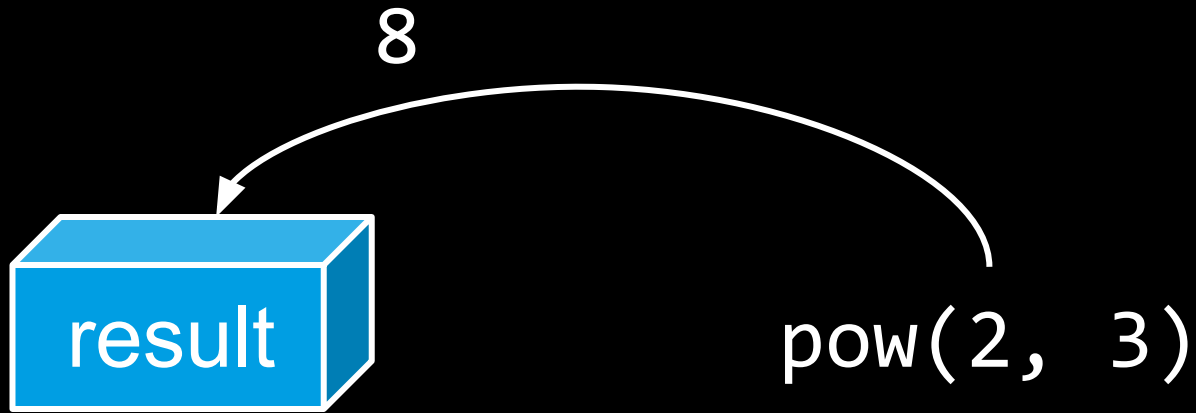


# VARIABLES AND DATA TYPES

[BACK](#)







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

 = 4

result = pow(2, )

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

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  $2 == 1$

data types

integer

float

boolean



string

```
strip()  
capitalize()  
title()
```

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



```
# step 1: determine exponent
```

```
exp = 4
```

```
# step 2: calculate power
```

```
# step 3: print result
```

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# step 1: determine exponent
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# step 3: print result
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# step 1: determine exponent
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# step 2: calculate power
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```
# step 3: print result
```

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print(result)
```