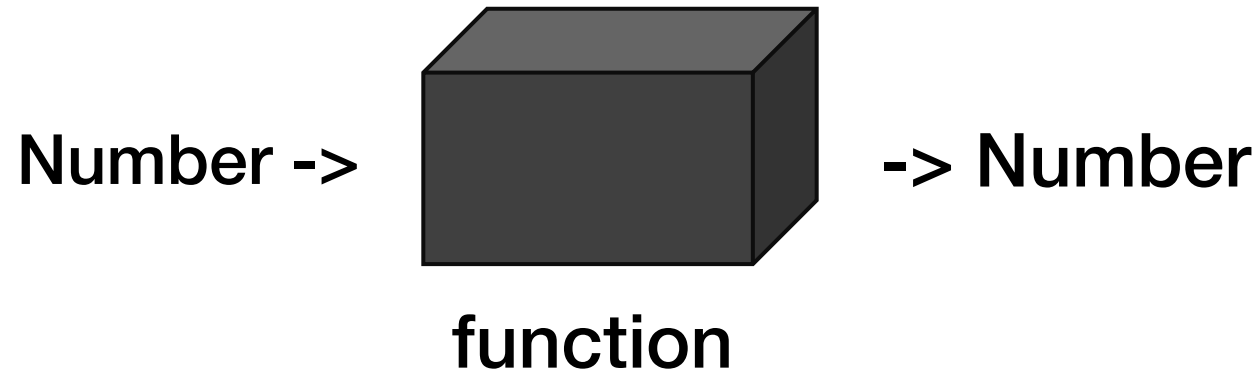


# In class sheet

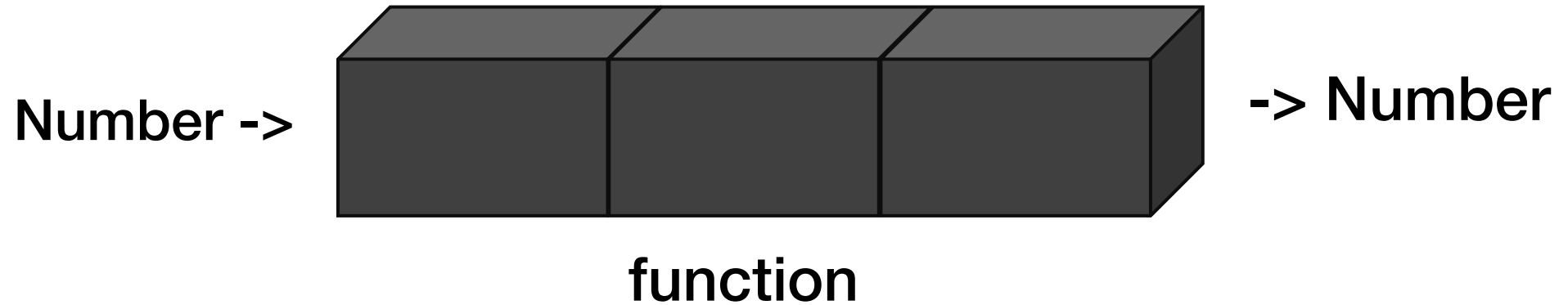
Some visualizations



$$y = f(x)$$

# In class sheet

Some visualizations

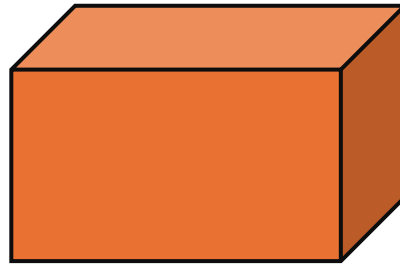


$$y = f(f(f(x)))$$

# In class sheet

Some visualizations

Function ->



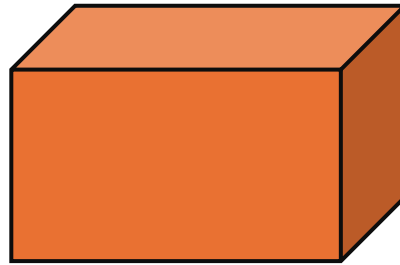
-> Function

thrice

# In class sheet

## Some visualizations

Function ->



-> Function

thrice

Number ->



-> Number

->

Number ->

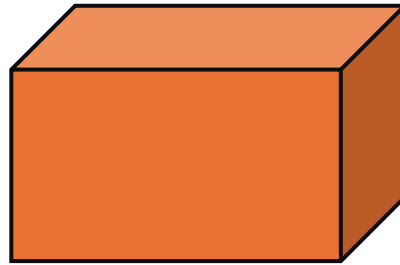


-> Number

# In class sheet

## Some visualizations

Function ->



-> Function

thrice

Number ->



-> Number

add1

->

Number ->



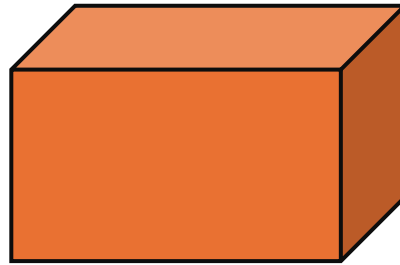
-> Number

thrice(add1) = add3

# In class sheet

## Some visualizations

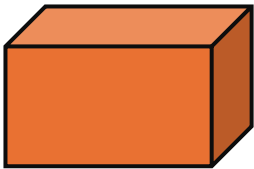
Function ->



-> Function

thrice

Function ->

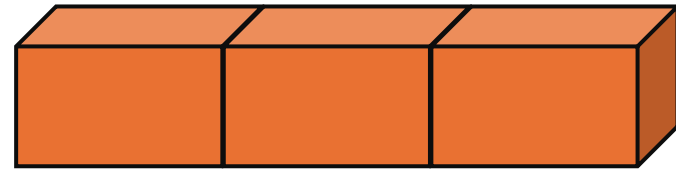


-> Function

thrice

->

Function ->



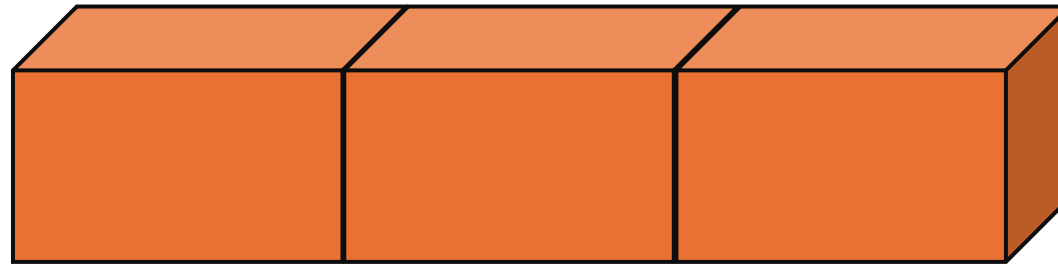
-> Function

thrice(thrice)

# In class sheet

Some visualizations

add1 ->



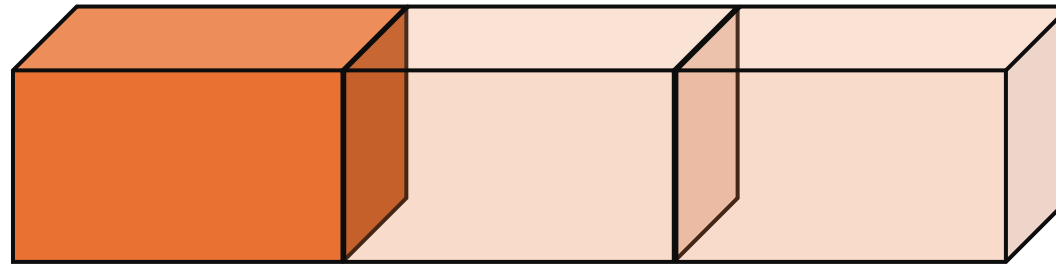
-> ???

thrice(thrice)

# In class sheet

## Some visualizations

add1 ->



-> ???

thrice(thrice)

Number ->



-> Number

add1

->

Number ->



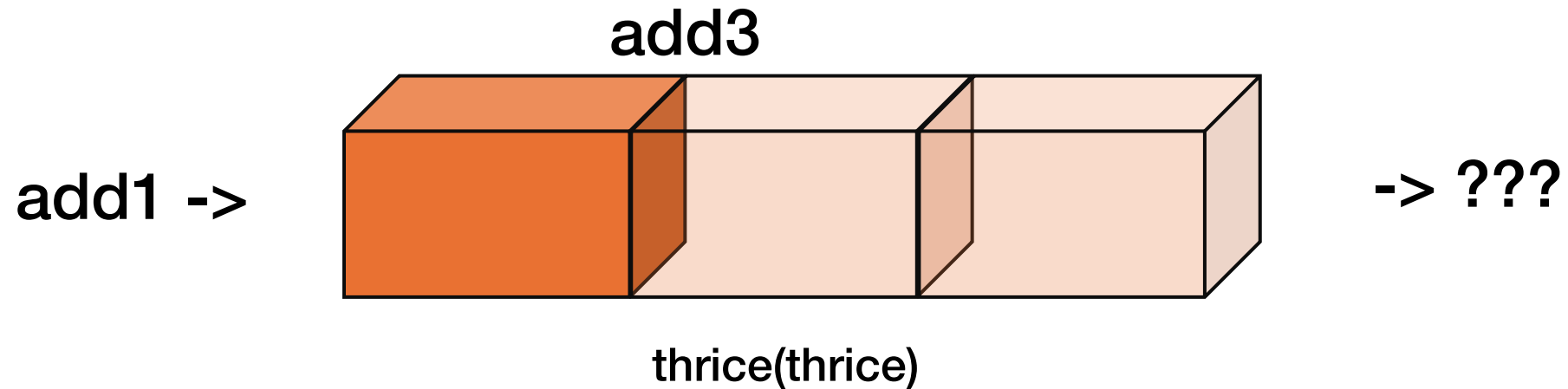
-> Number

thrice(add1) = add3



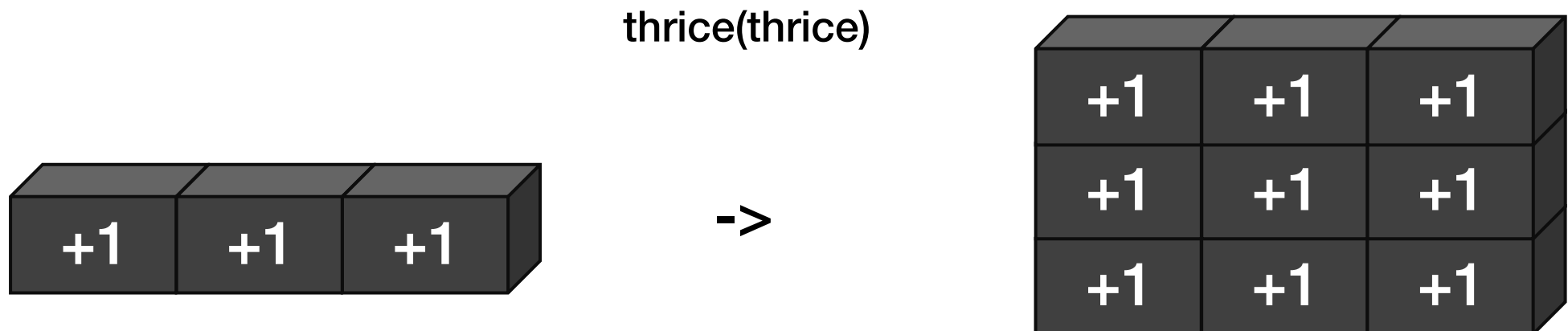
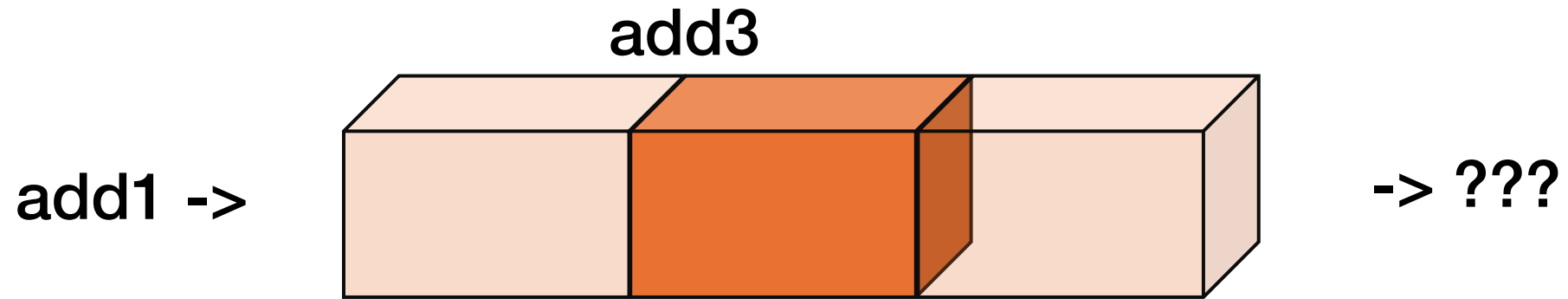
# In class sheet

Some visualizations



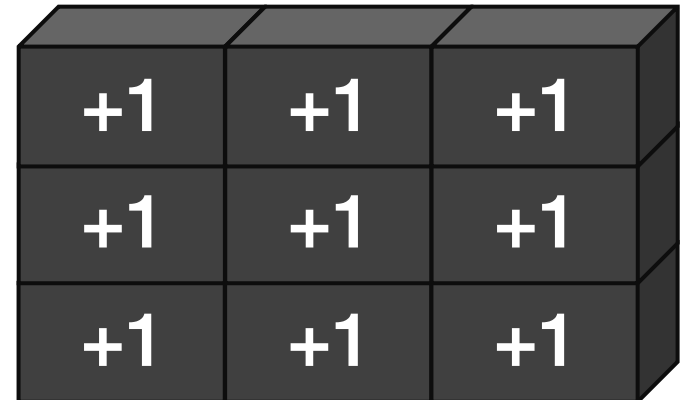
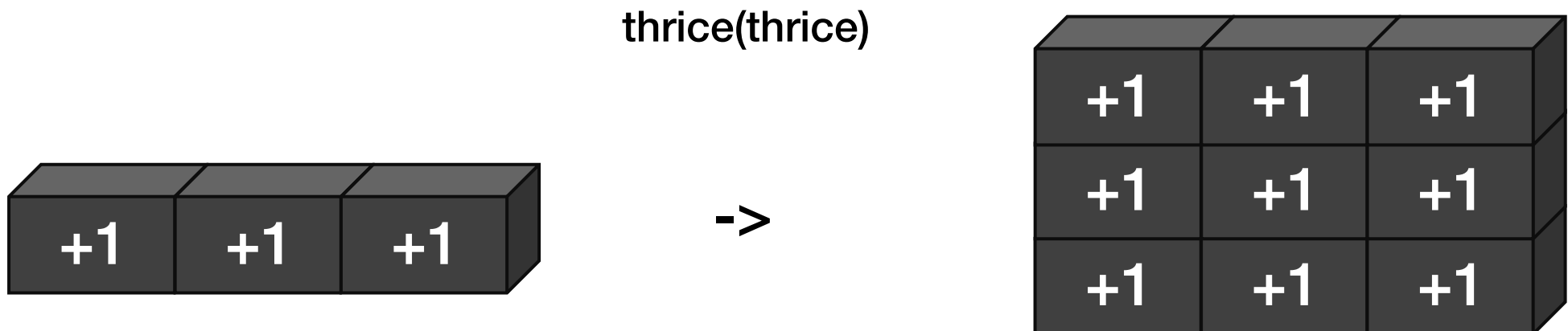
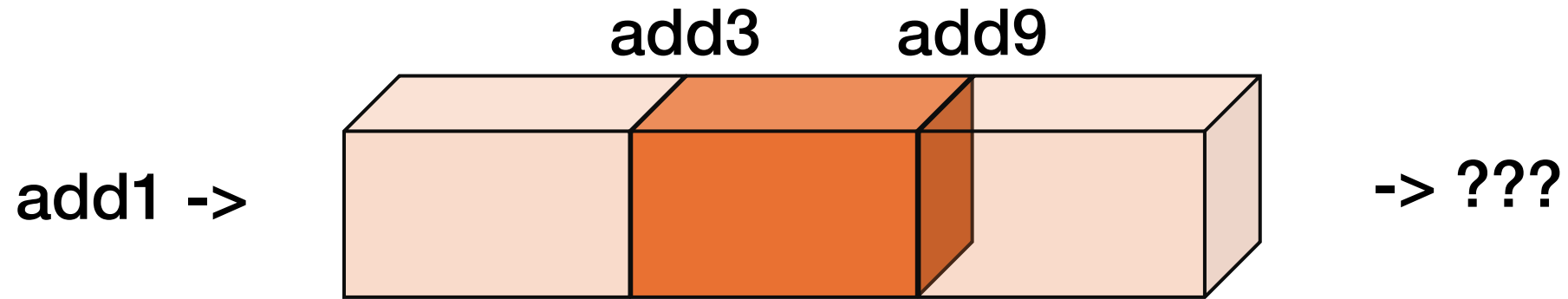
# In class sheet

Some visualizations



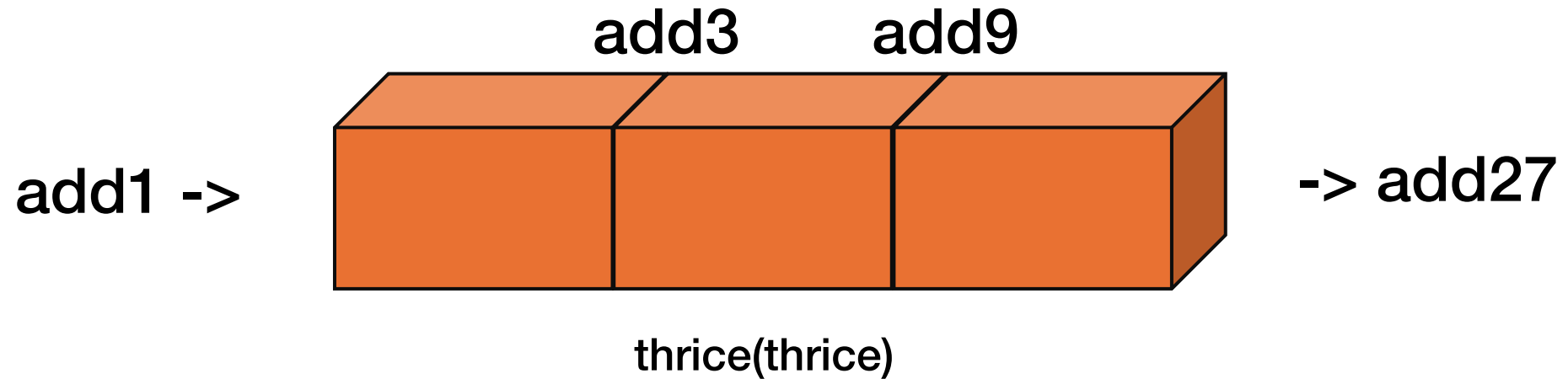
# In class sheet

Some visualizations



# In class sheet

Some visualizations



# In class sheet

## Additional questions

What do these evaluate to? Why?

- `thrice(thrice(add1))(6);`
- `((twice(thrice))(add1))(6);`
- `((thrice(twice))(add1))(6);`