

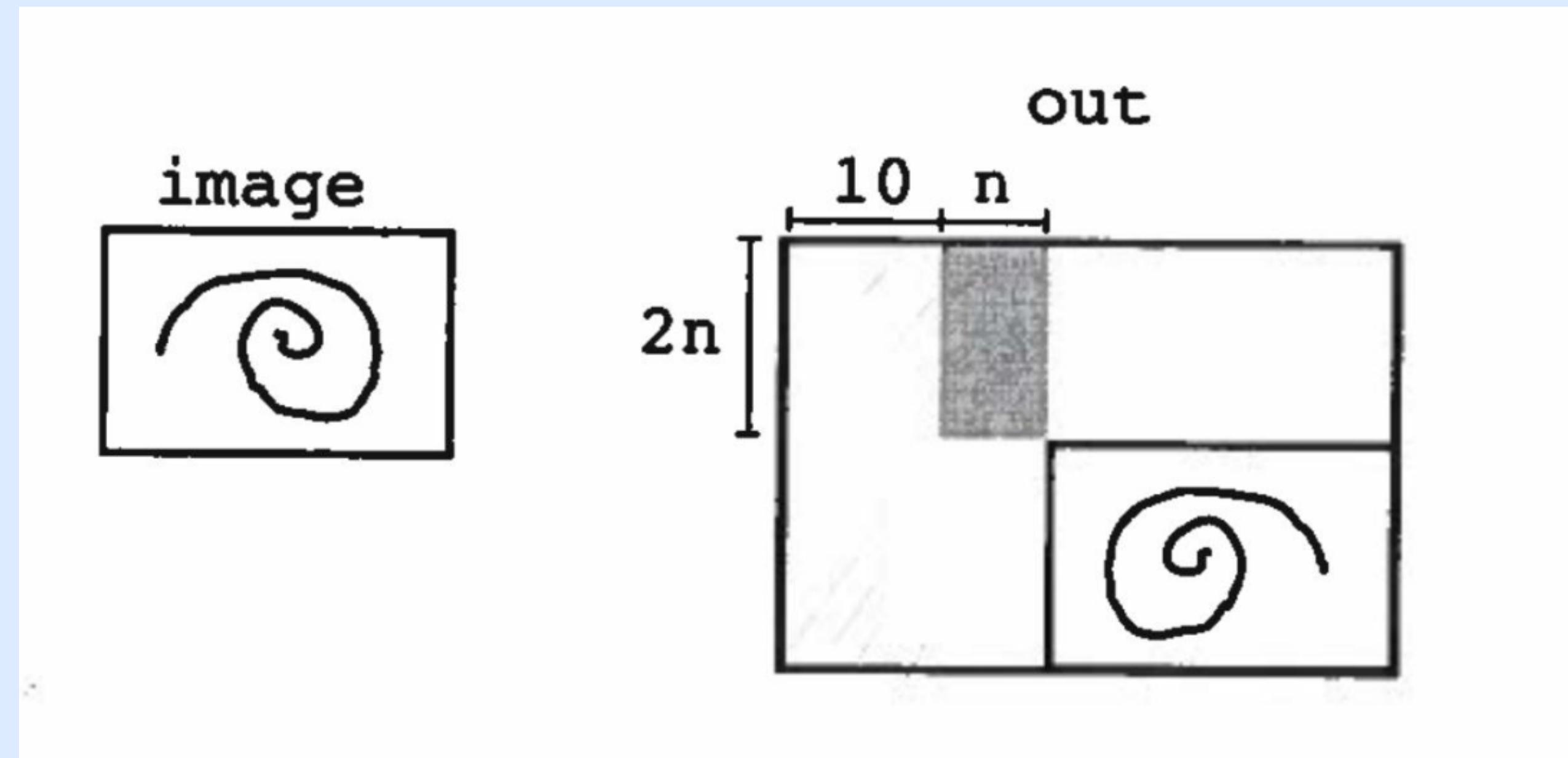
# Plan for Today

- Images
- Lists
- Do more functions
- Practice problems !

# Any Questions?

# A Former Exam Problem

- `def do_image(filename, n):`



# Lists

- Kinda a cheat code
- Consolidate values into one variable. Can even be nested!
- Access values by indices

# Looping through a List

- range based loop
- for each loop

# Common List functions/operations

- `.append()`
- `len()`
- `.index()`
- `.reverse()`
- `.extend()`
- `in`
- `slicing!`

# Let's do Lists!

- double\_each
  - Given a **list**, return a new list where every element is doubled. Eg: [1, 2] => [2, 4]
  - Given a **list**, modify this list so that each element in this list doubled. Eg: [1, 2] becomes [2, 4]

# Let's do Lists!

- `shift_elements`
  - Given a `list`, return a new list where the list is shifted by `k`, which is also given.

# Let's do Lists!

- `swap_pairs`
  - Given a `list`, swap all adjacent elements with each other. Modify the original list.
  - `[ 1, 2, 3, 4 ] => [ 2, 1, 4, 3 ]`.
  - `[ 1, 2, 3 ] => [ 2, 1, 3 ]`

# Any Questions?

# Practice Problems!

**Off to the experimental Server!**

**Images:**

- bluescreen-stop

**Lists:**

- post\_donut
- intersect

**Your homework**