

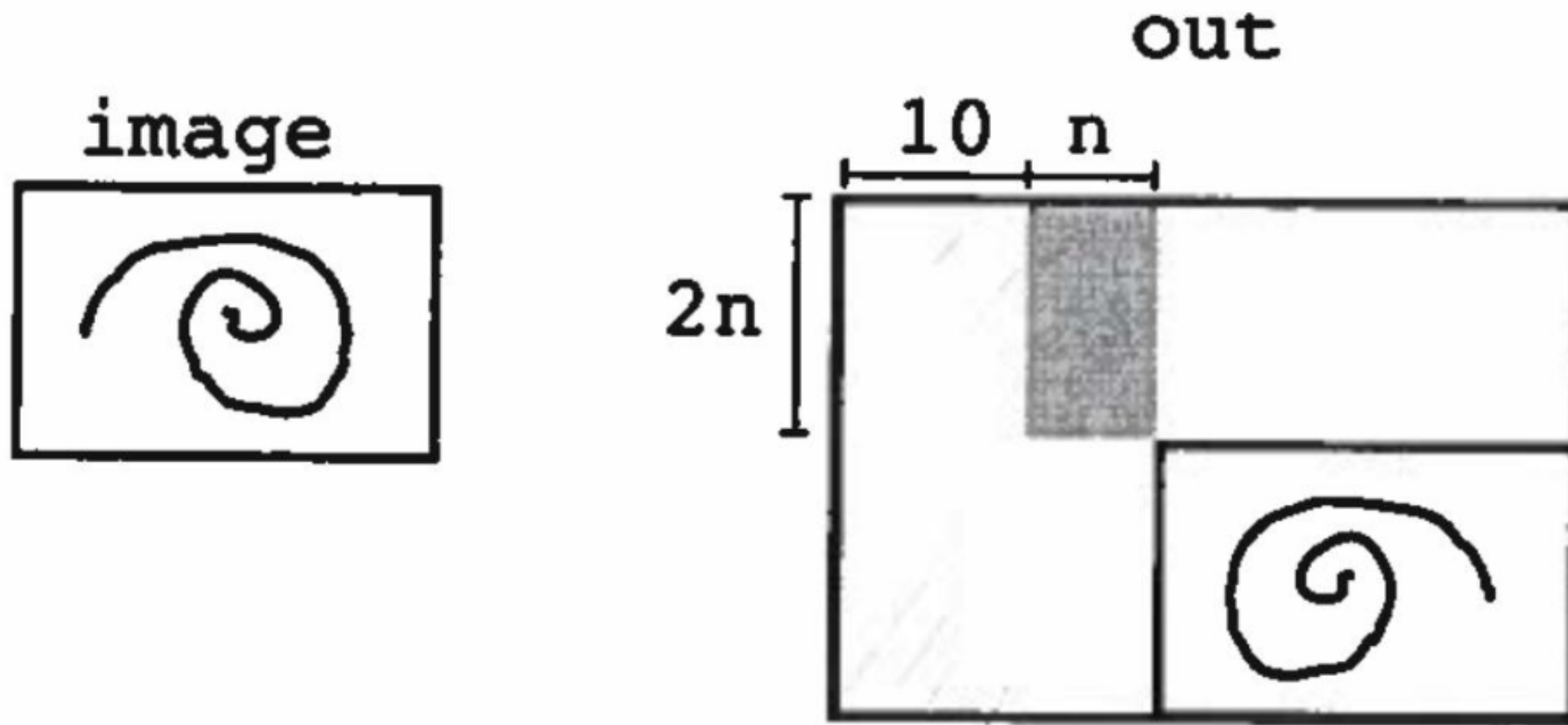
Plan for Today

- 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