## The Syracuse Generator

```
def syracuse_iter(n):
    yield n
    while n != 1:
        n = syracuse(n)
        yield n
```

- · Will yield the number,
- ◆ While n!= 1, will apply the function and yield each subsequent value.
- And it's lazy!
  - · Won't create a big list if stopped early

## Using a Generator Function

```
>>> for i in syracuse_iter(3):
      print(i)
10
16
```