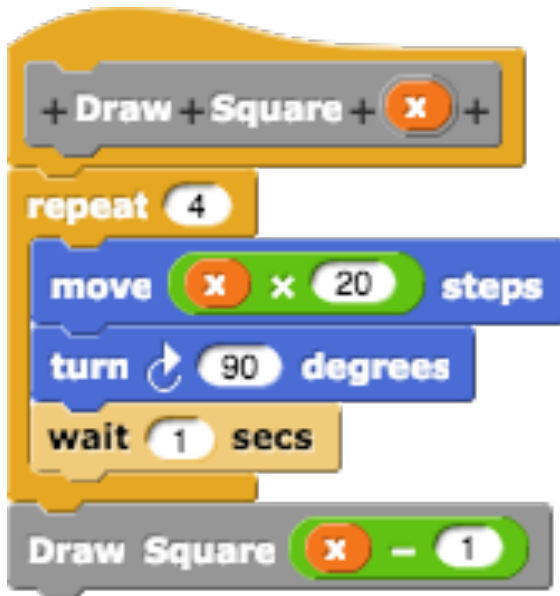


Recap

- lists
- higher-order-functions
- map
- keep items such that
- combine with

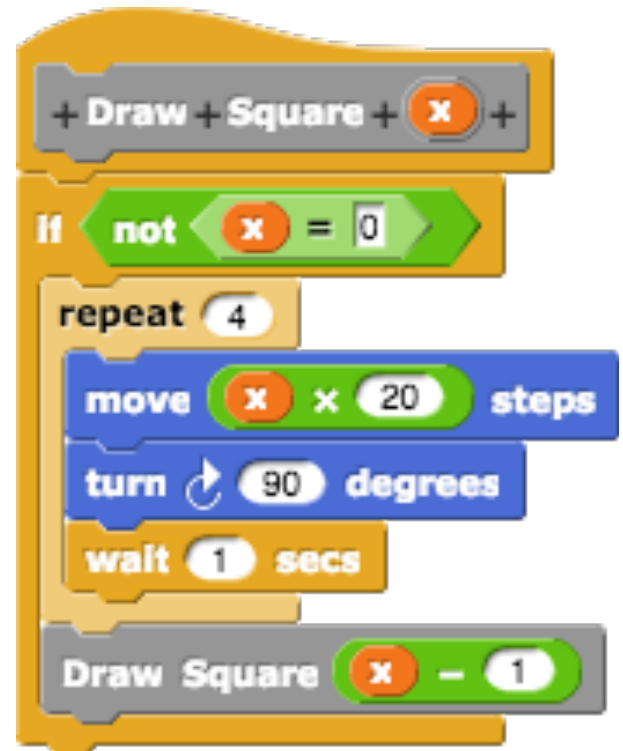
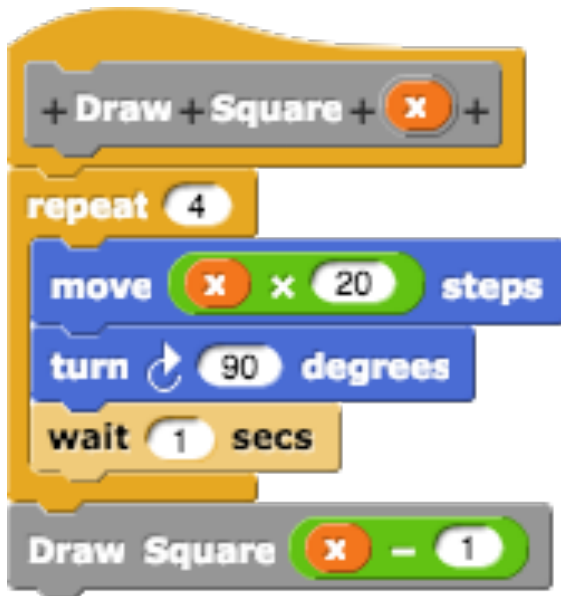
Recursion

- Recursion – when a block (or function) calls itself)



Recursion

- But this block repeats forever...we need something to stop it eventually



Lab 7

- Create 2 blocks recursively:
 - Recursive Tree
 - Recursive Snowflake
 - (extra credit) C-Curve

Tree Block

- You are provided with several tree blocks

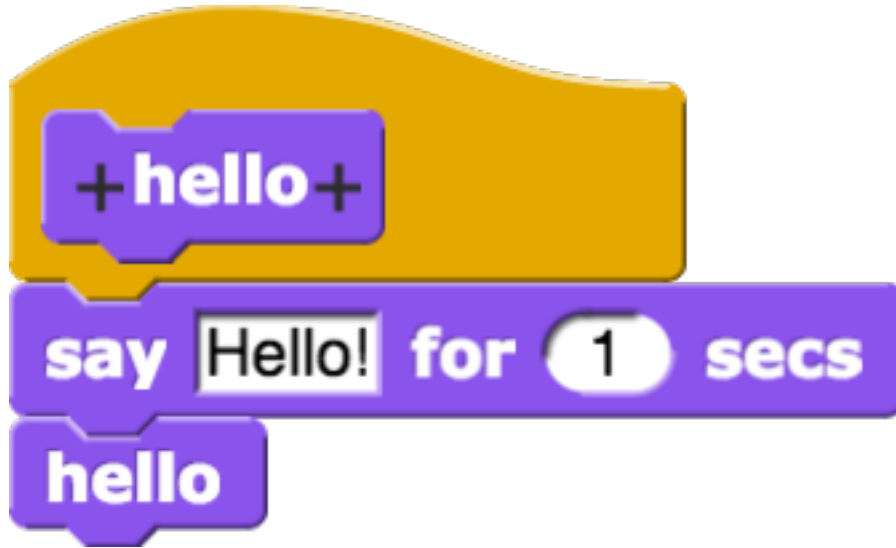
Snowflake Block

- You are provided with one block, you will be filling in the blanks

C-curve Block

- Optional
- Worth 3 extra points toward your overall assignment average

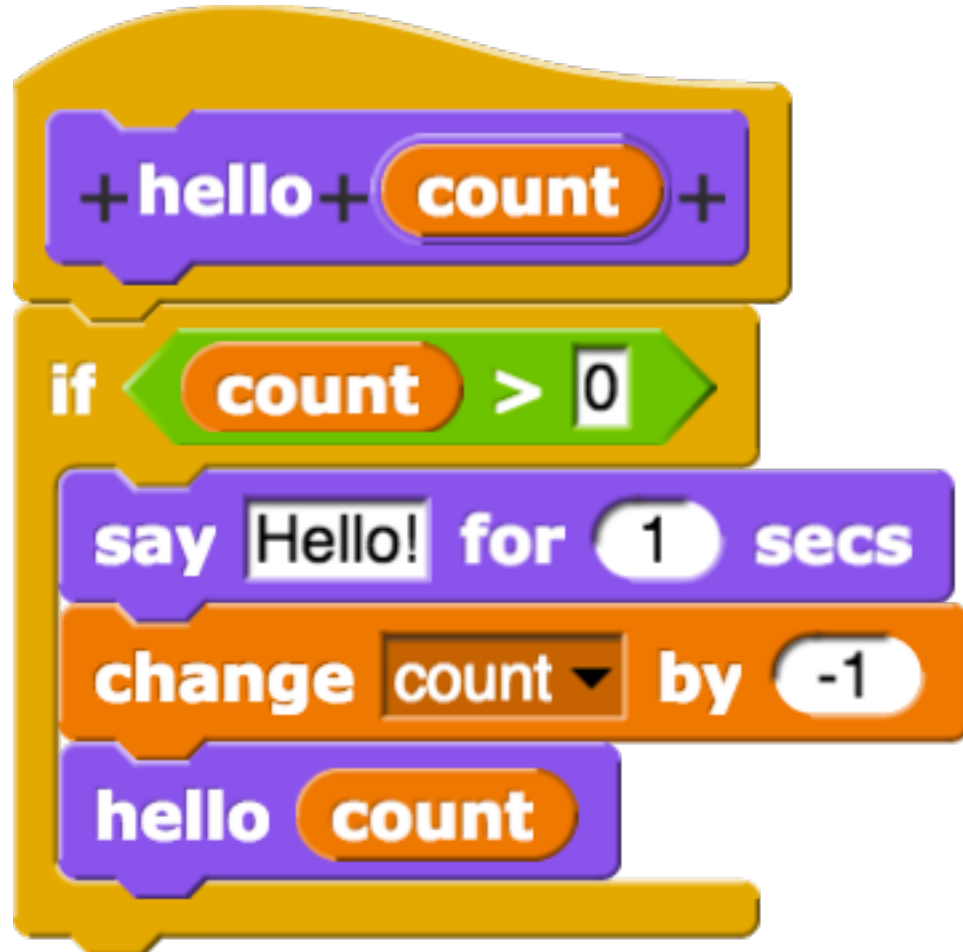
For how many seconds does this say “Hello!”?



- A. 0
- B. 1
- C. forever

For how many seconds does this say “Hello!”?

hello 3



- A. 1
- B. 2
- C. 3
- D. 4
- E. forever

What is printed by this block?

mystery 4



```
+mystery + x +  
If x > 1  
  report x * mystery * x - 1  
else  
  report 1
```

- A. 12
- B. 16
- C. 20
- D. 24