## **A Brief Problem**

number.

Read a number from the user. Print every number from 1 up to the user's

> Did you use a for loop or a while loop? Why might you use a for loop on this problem? So... there's a familiar pattern to the problem that tells you how to solve it!



# **Goals for Loop Development**

Getting from problem statement to working code

Systematic loop design and development

Recognizing and reusing code patterns

A-3 4/22/2001

A-5 4/22/2001



# Seattle Rainfall Program

### #include <stdio.h>

```
int main(void) {
    /* Print out the daily rain prediction for
    tomorrow. */
    printf("yes.\n");
}
```



- What was the median rainfall (half the days have more, half less)?
- On how many days was the rainfall above average?

What's similar about these? Different? Which one is right?



























# Summary Loop design is not always a top-to-bottom process Sometimes "process"/ "init"/ "final" is useful, with "decls" as needed A program schema is a pattern of code that solves a general problem We looked at just one, "Read Until Sentinel." Look for other general patterns as you get more experience Arati Harding Arati Harati Harding Arati Harati Harding Arati Harat















