

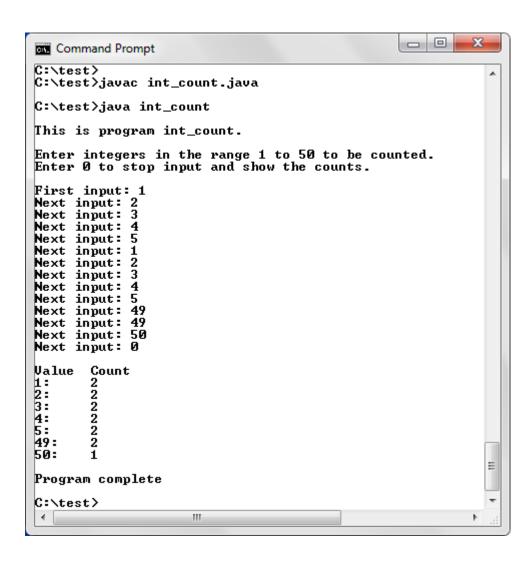
## Project 9: Counting Integers



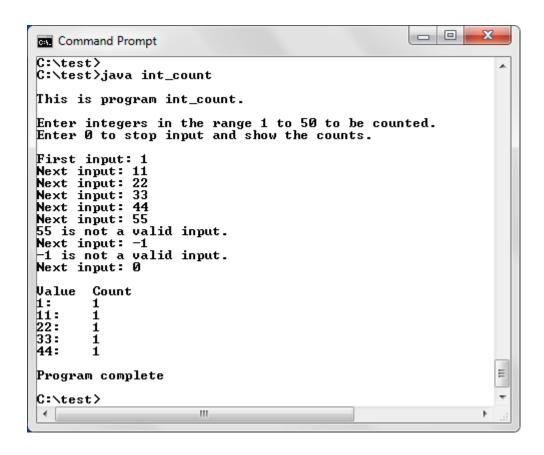
#### Project 9: Counting Integers

- Write a program that reads an arbitrary number of integers in the range 1 to 50 from the keyboard and then outputs how many of each value were read.
  - Do not output zero counts.
- Prompt the user for inputs as shown in the sample run.
- Let the user enter 0 to terminate input.
- Any other value outside the range 1 to 50 should get an error message.

### Sample Run



#### Sample Run with Invalid Inputs



#### Specifications

- Output a heading for the counts, as shown in the sample runs.
- Note the alignment of the counts.
- The first digit of each count should be aligned with the C in the heading.

 Pay close attention to the prompts. Your output should match the sample runs for the same inputs.



#### **Implementation Tips**

Use an array of length 51 for the counts.

 When an input in the range from 1 to 50 is received, increment the count in the corresponding array element.

When the user enters 0, signaling end of input, use a "for" loop to output the nonzero counts.

#### **Submission**

- Put your Java source file into a folder and zip it.
- Submit your zipped Java source file via Canvas Assignments.
- Project is due by 11:59 PM, Sunday, March 6.
  - All sections.

Recommendation:

Do this project in your lab session or help session.

# Ground Rules

- It is OK to discuss the project with other students BUT
  - Do not share your code with other students.
  - Before or after submitting the project.
- Do not copy any other student's code.
  - Or even look at it.
- Do not let anyone copy or examine your code.

#### **Ground Rules**

Except for code posted on the class web site

- Do not copy code from the Internet
  - or any other source (other than the textbook.)
- Do not ask for help on an Internet forum.
  - If you need help, ask your instructor or a TA.
  - Come to lab and help sessions.
- Write your own code.