

# Algorithm Description – Vote Count

In plain English, point-form, think through the steps necessary to solve the given problem.

Make use of key words like *compare*, *iterate*, *store*.

In code, of course, these translate to conditional statements, loops, and using variables.

## Algorithm

### INPUT

- iterate until a valid integer in the range 1 to 15 inclusive is provided
  - show the prompt “How many votes? “
- accept input indicating the votes cast

### PROCESS

- verify that the length of the votes cast string equals the expected number of votes
  - if so, iterate over the string that provides the votes
    - when an “A” is encountered, increment a variable tracking how many “A” votes there have been
    - when a “B” is encountered, increment a variable tracking how many “A” votes there have been
    - should any other character be encountered, report an error and stop the program
  - if not, report an error and stop the program

### OUTPUT

- when there are more “A” votes than “B” votes
  - print “A”
- when there are more “B” votes than “A” votes
  - print “B”
- otherwise
  - print “Tie”