# 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

* iterate…
* compare…
* store…

Input

* Collect both inputs
  + Iterate until valid input received
    - Show the prompt
    - Get the input
    - Check whether first input is an integer
      * Check if it is in the valid input range (1-15 inclusive)
      * If input isn’t between the range or the input is not an integer prompt the user again
        + Store the # of votes value
    - Check whether second input is a string

Process/Output

* if integer value is in the range then take in value and wait for user to input a sequence of A’s and B’s
* If number of votes integer isn’t the same as all the A’s and B’s added together then print “Error”
* If # of A’s> # of B’s print “A”
* If # of B’s> # of A’s print “B”
* If # of A’s equals # of B’s print “Tie”
* If input is not string for second input or includes something besides the letters A and B print “error”