# 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…

prompt for input

check input to be an integer

check if integer is within valid 1-15 range

if not in range prompt again

else store input integer

new line for input of of As and Bs

count number of characters in string and ensure it is equal to the integer provided earlier otherwise, return error

create variables for number of As and Bs

iterate through characters in string

in loop make sure each character is an A or a B, otherwise return error

increase variable for number of As or Bs in correspondence to the character being iterated over

check which number is larger and return character related to larger number

if tie, return tie