# Algorithm Description

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.

For example, say the problem is: “find all even numbers in a range given by the user, display the even numbers, and at the end of the program, report on how many even numbers there were.”

* iterate until a valid integer greater than zero is given
  + ask for the starting value for the range from the user
* iterate until a valid integer greater than the starting value is given
  + ask for ending value for the range from the user
* store 0 in a variable tracking how many even numbers have been found
* iterate from provided starting value to provided ending value (inclusive)
  + find the remainder of the current value when divided by 2
  + compare the remainder to 0
    - when the remainder is 0, the current value is even, so print it on the screen
    - increment the variable tracking how many even numbers have been found
* print on screen how many even numbers were found

## Algorithm

* first step of algorithm
* second step of algorithm
* et cetera