# Algorithm Description – Good Times

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

* Take input of Ottawa time
  + Check that input is an integer and that it is within the valid range. If true, break out of input loop into process section. If false prompt again

PROCESS

* Subtract or add the right amount of time to the input time to get the time in each city.
  + If the number goes below 0 subtract the absolute value from the 2359 to get what the time would have been in previous day
  + If the number goes above 2359 add the difference between the number and 2359 to 0
* Build output string with value for each time in each city

OUTPUT

* Print output string