# 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 the input, first make sure it is between 0000, and 2359 inclusive

-make sure the last two digits are between 00 and 59 inclusive

-Reprompt for input

PROCESS

-Have dictionary of time values with [String : Int]

-Set Ottawa and Toronto time

-Use modulus 24 when adding hour because of overflow past 24

-For the 30 minute increment with St. John’s isolate the minutes, add 30, add the result/60 to the hour, then mod 60 the minute

OUTPUT

-Iterate through the dictionary and print it out