# Algorithm Description – Calendar

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

* Use iteration to prompt the user for day, number of days in the month and the special day
  + Check that each input is a valid integer and fits within the range for that input (ex. Day of the month 28-31 inclusive etc.)
  + When the input passes all of these conditions append the input to an array of integers if not prompt again for that input.
* Once all inputs are collected break out of input loop and begin processing the input

PROCESS

* Compare integer given as input for day of the week to an array of strings holding the actual day of the week as a string (ex. 2 = Mon 3 = Tue)
* Create a loop that iterates through all the days in the month
  + Print out all days of the week setting up the calendar table
  + Check for when the special day is reached and place a star beside the number as the calendar is printed also add new lines accordingly so the days fit into rows of 7 matching the weekdays like a real calendar

OUTPUT