# 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

Give the prompt for what day the month starts at

* Check to see if the value of the input is not nil
* Check to see if the input is an integer
* If not, repeat prompt
* Check to see if the value is less than 7 and more than 1
* If not, repeat prompt
* If it is, put the value into a variable to store it

Give the prompt to find the amount of days

* Check to see if the value of the input is not nil
* Check to see if the input is an integer
* Check to see if the value is less than or equal to 31 and more than or equal to 28
* If not, repeat prompt
* If it is, put the value into a variable to store it

Give prompt for special day

* Check to see if the value of the input is not nil
* Check to see if the input is an integer
* If not, repeat prompt
* Check to see if the value is less than the # of days and more than or equal to 1
* If not, repeat prompt
* If it is, put the value into a variable to store it

PROCESS

Create a global array that will hold all the days

Create a loop that runs from 1 to the input amount of days

* Check to see if the current value is equal to the special day value
* If it is, input an asterisk before it in the array
* Append the current value of the loop variable to the array

OUTPUT