**Rewrite assignments 8** sorted rainfall **using structures**.

**Please pay attention to these instructions there will be no leeway if you do not follow the directions.**

I expect to see at functions for at least:

1. Generating values
2. Displaying sorted rain
3. Determining min month string
4. Determining the max month string.   
   I know many of you could do all of that in one function but that is not what I want. Please follow the directions.
5. A boolean function keep reading below for details

* The same rules apply for generating random rain. Each run should yield different results.
* The maximum rain should be a constant equal to 4.
* Your code should contain no arrays
* Use a vector for the months.
* No arrays. The month and rainfall should be stored in a structure.
* If you use any arrays you will get a zero.

All the code must be modularized into functions.

All functions must be prototyped (declared). Not function code must appear above the main function just the function definitions. No calculations inside the main function.

The output should look as shown below.  *Note: the bool function is not part of the output*.

I left it in there to help those who struggle with the sorting.

Text

Description automatically generated

* For sorting the data you MUST use C++ algorithm sort function.  It will require #include <algorithm>    
  Reference Table 16-4.  The following is a really good example.  
  [https://tutorialspoint.dev/algorithm/sorting-algorithms/structure-sorting-in-c   (Links to an external site.)](https://tutorialspoint.dev/algorithm/sorting-algorithms/structure-sorting-in-c)  
  To use sort you will need a boolean function that sorts the vector rainfall amount ascending.
* To determine the minimum and maximum months I suggest once you have the structure sorted pick the lower/maximum month and concatenate to a string all the months with the same amount of rainfall.
* To avoid a comma at the end of your min and max strings I suggest you only concatenate " ," when the string is not empty.  
  This assignment and the next are worth approximately one grade. Do not wait until the last two days.