In this homework, you will do some data analysis using R for the Forest Fire Data described

https://archive.ics.uci.edu/ml/datasets/forest+fires

The dataset is used to find the relationship between the burned area of forest fires and meteorological data.

1. Import the data into R.
    a. How many observations are there in the dataset?
    b. How many observations are there with a fire (i.e., area>0)
    c. How many observations are there with a rain (i.e., rain>0)
    d. How many observations are there with both a fire and a rain?
2. Show the columns month, day, area of the all the observations.
3. Show the columns month, day, area of the observations with a fire.
4. How large are the five largest fires (i.e., having largest area)
    a. What are the corresponding month, temp, RH,

wind, rain area?

   b. Add one column to the data indicating whether a fire occurred for each observation (True for area >0 and False for area ==0)

5. Construct a matrix with 10 columns and 10 rows, filled with random numbers between 0 and 1. Apply two different methods.

   a. Calculate the row means of this matrix.

   b. Remake the above matrix, with 100 columns, and 10 rows. Then calculate the column means.