Q1. Write R code to check whether a number is positive or negative or Zero.

Q2. Load the data of rain1 and count how many values are less than the mean value in this data.

Q3. Load the data of temp1 and count the number of temperature observations between 38.5 to 39 degree Celsius in this data.

Q4. Write a sequence of numbers from 1 to 20, excluding 3, 5 and all the even numbers

Q5. In the below flood data, using principle of least square find the value of parameters of the specified model. What will be the value of flood volume for 120 days of flood duration.

$$\textbf{Model:} \quad Y = \beta_0 + \beta_1 X + \epsilon.$$

Duration	102	105	112	103	117	110	122
Volume	12032	12405	12903	10853	11738	12361	13134