**For Q1 to Q12 use “College.csv” (Read with strip.white=T & stringsAsFactor=T)**

1. Calculate the median of the first 15 rows of the variable Enroll?
2. Calculate the mean of variable "Enroll".
3. How many colleges have Grad.Rate greater than 50?
4. What is the class of variable "Private"?
5. Calculate the mean of the last 20 rows of the variable “Apps"
6. How many observations have more than 70 books and 10 PhD?
7. What is the difference between mean of ‘Enroll’ for Private and Public colleges?
8. How many PhD students are there in Marymount University?
9. Acceptance Ratio is defined as Accept/Apps. Append the field acceptance ratio to the college dataframe and save df as college\_new.
10. How many colleges have acceptance ratio greater than the mean of acceptance ratio of all colleges?
11. Which college has minimum enrolments?
12. How many private colleges have more than 600 books?

**For Q13 to Q20 use “cars.txt” file**

1. Append a variable hp2 defined as hp/2 to the data-frame.
2. What is the frequency distribution of the "brand" variable in the "cars" data frame?
3. Create a data frame named "cars.rsub" by subsetting the data for the first 50 rows of the "cars" data frame
4. Create a data frame "cars.csub" by subsetting the "cars" data frame from the first 3 columns?
5. Select rows 2, 5, and 10, and columns 1, 3, and 6 from the "cars" data frame and store it in a new data frame "car\_out"
6. How many cars have greater than or equal to 106 hp?
7. How many cars manufactured in US have more than 100 Hp?
8. How many cars have weight less than the mean weight of all cars?