1. $\sum_{1}^{10} x_i = 10$. x_i *can take* $0, 1$ *or* 2

    How many unique solution this equation has? Each sequence of will be treated as a unique solution (ex : 0111111112, 1011111112 are two different solutions).

    Solve this using R/Matlab/Excel

2. There are 10 different files in a folder named as **Salary_YYYYMMDD.csv**. All files contain same columns: Name, Salary. For example file **Salary_20160101.csv** will contain the salary of the employees for Jan'16, similarly **Salary_20160229.csv** will contain salary for Feb'16. Read all files from the folder and create one single csv file named **Salary.csv** which will contain the salary information across 10 months for all the employees.(column names will : employee; sal_jan; sal_feb;…..)

3. Simulate a Brownian motion for 100 different paths.

4. A stock can move up by 1$ with probability .4, can go down by 1$ with probability .3 or can stay at the same   price. Simulate the possible prices of the stock after 30 days. Do this using 1000 simulation.

5. X = c(list(4,5), c(7,8))
    Y = c(list(4,5), list(7,8))

    Is X = Y?

6. How will you calculate the count of NA values in M x N data frame?