```
rm(list=ls())
##Choosing the file
Breast_Cancer_Wisconsin <- read.csv("C:/breast-cancer-wisconsin.data.csv", header = TRUE, na.strings =
##Summary
summary(Breast Cancer Wisconsin)
                                               F2
                                                                F3
##
        Sample
                             F1
               61634
                              : 1.000
                                                : 1.000
                                                                 : 1.000
##
   Min.
          :
                       Min.
                                        Min.
                                                          Min.
   1st Qu.: 870688
                       1st Qu.: 2.000
                                        1st Qu.: 1.000
##
                                                          1st Qu.: 1.000
   Median : 1171710
                       Median : 4.000
                                        Median : 1.000
                                                          Median : 1.000
##
   Mean
          : 1071704
                       Mean
                              : 4.418
                                        Mean
                                              : 3.134
                                                          Mean
                                                                 : 3.207
   3rd Qu.: 1238298
                       3rd Qu.: 6.000
                                         3rd Qu.: 5.000
                                                          3rd Qu.: 5.000
##
                                                                 :10.000
##
   Max.
          :13454352
                              :10.000
                                              :10.000
                                                          Max.
                       Max.
                                        Max.
##
##
          F4
                           F5
                                             F6
                                                              F7
##
   Min.
          : 1.000
                     Min.
                            : 1.000
                                      Min.
                                             : 1.000
                                                        Min.
                                                               : 1.000
##
   1st Qu.: 1.000
                     1st Qu.: 2.000
                                      1st Qu.: 1.000
                                                        1st Qu.: 2.000
##
   Median : 1.000
                     Median : 2.000
                                      Median : 1.000
                                                        Median : 3.000
##
   Mean : 2.807
                     Mean : 3.216
                                      Mean : 3.545
                                                        Mean
                                                               : 3.438
##
   3rd Qu.: 4.000
                     3rd Qu.: 4.000
                                       3rd Qu.: 6.000
                                                        3rd Qu.: 5.000
##
   Max.
          :10.000
                     Max. :10.000
                                      Max.
                                              :10.000
                                                        Max.
                                                               :10.000
##
                                       NA's
                                              :16
##
          F8
                           F9
                                           Class
          : 1.000
                           : 1.000
##
                                              :2.00
   Min.
                     Min.
                                      Min.
   1st Qu.: 1.000
                     1st Qu.: 1.000
                                      1st Qu.:2.00
##
   Median : 1.000
                     Median : 1.000
                                      Median:2.00
##
   Mean : 2.867
                     Mean : 1.589
                                      Mean
                                              :2.69
##
   3rd Qu.: 4.000
                     3\text{rd}\ Qu.:\ 1.000
                                      3rd Qu.:4.00
##
          :10.000
                            :10.000
                                      Max.
   Max.
                     Max.
                                              :4.00
##
```

Subquestion II. Identifying missing values

```
##True/False format indicating if the values is missing
is.na(Breast_Cancer_Wisconsin)
```

```
##
                                                   F7
                                                        F8
                  F1
                       F2
                             F3
                                  F4
                                        F5
                                             F6
                                                              F9 Class
##
    [1,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
    [2,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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    [3,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
    [4,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
    [5,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
##
         FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
    [7,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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    [8,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
    [9,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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   [10,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
   [11,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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## [698,] FALSE FA
## [699,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
View(Breast_Cancer_Wisconsin)
MissingDataBCW <- Breast_Cancer_Wisconsin[which(is.na(Breast_Cancer_Wisconsin$F6)),]</pre>
MissingDataBCW
                             Sample F1 F2 F3 F4 F5 F6 F7 F8 F9 Class
##
## 24 1057013 8 4 5 1 2 NA
                                                                     6 6 9 6 NA
                                                                                                                            7
## 41 1096800 6
                                                                                                                                         8 1
## 140 1183246 1
                                                                      1
                                                                                  1
                                                                                             1
                                                                                                        1 NA
                                                                                                                              2
                                                                                                                                          1
## 146 1184840 1
                                                                      1
                                                                                  3
                                                                                             1 2 NA
                                                                                                                            2 1 1
                                                                                                                                                                            2
## 159 1193683 1
                                                                                 2 1 3 NA
                                                                     1
                                                                                                                             1 1 1
                                                                                                                            3 1 1
## 165 1197510 5 1 1 1 2 NA
```

```
## 236 1241232
                  3
                         4
                             1
                                2 NA
                                                      2
                      1
   250
         169356
                  3
                         1
                             1
                                2 NA
                                       3
                                           1
                                                      2
                      1
   276
         432809
                      1
                         3
                             1
                                2 NA
                                                      2
   293
         563649
##
                      8
                         8
                             1
                                2 NA
                                       6 10
                                                      4
                  8
##
   295
         606140
                  1
                      1
                         1
                                2 NA
                                       2
                                                      2
   298
                      4
                         3
                                           3
                                                      2
##
          61634
                  5
                             1
                                2 NA
                                       2
                                               1
   316
                         5
                             6
         704168
                  4
                      6
                                7 NA
                                           9
                                                      2
## 322
         733639
                  3
                      1
                         1
                             1
                                2 NA
                                       3
                                           1
                                               1
                                                      2
## 412 1238464
                  1
                      1
                         1
                             1
                                1 NA
                                       2
                                           1
                                              1
                                                      2
## 618 1057067
                  1
                      1
                         1
                             1
                                1 NA
                                       1
                                                      2
```

Subquestion III. Replacing the missing values with the "mean" of the column.

##As we can see only F6 has character values i.e. only missing values, hence calculating for F6 column individually

```
##Replacing missing values with mean of the column

Mean_F6 <- mean(Breast_Cancer_Wisconsin$F6,na.rm = TRUE)
Mean_BCW <- Breast_Cancer_Wisconsin
Mean_BCW[is.na(Mean_BCW)] <- Mean_F6
Mean_BCW</pre>
```

```
##
          Sample F1 F2 F3 F4 F5
                                           F6 F7 F8 F9 Class
## 1
                   5
                                 2
                                    1.000000
         1000025
                                                3
                                                              2
                                 7 10.000000
                                                              2
## 2
         1002945
                   5
                      4
                          4
                             5
                                                3
                                                   2
                   3
                                 2
                                    2.000000
                                                3
                                                              2
## 3
         1015425
                      1
                          1
                              1
                                                   1
                                                              2
## 4
         1016277
                   6
                      8
                          8
                             1
                                 3
                                    4.000000
                                                3
                                                   7
                                                              2
## 5
         1017023
                   4
                      1
                          1
                              3
                                 2
                                    1.000000
                                                3
## 6
         1017122
                   8 10 10
                             8
                                 7 10.000000
                                                9
                                                              4
                                                              2
##
  7
         1018099
                   1
                      1
                          1
                              1
                                 2 10.000000
                                                3
## 8
         1018561
                                                3
                                                              2
                   2
                      1
                          2
                             1
                                 2
                                    1.000000
                                                   1
## 9
         1033078
                   2
                      1
                                    1.000000
                                                              2
                      2
                                 2
                                                2
                                                              2
## 10
         1033078
                   4
                                    1.000000
                                                   1
                                                       1
                          1
                              1
                                                              2
##
  11
         1035283
                   1
                      1
                          1
                             1
                                 1
                                    1.000000
                                                3
                                                   1
##
   12
         1036172
                   2
                      1
                                 2
                                    1.000000
                                                2
                                                   1
                                                              2
                          1
                             1
##
   13
         1041801
                   5
                      3
                          3
                             3
                                    3.000000
                                                              4
##
   14
         1043999
                   1
                                 2
                                    3.000000
                                                3
                                                   1
                                                              2
                      1
                          1
                              1
                   8
                      7
                          5
                                 7
                                    9.000000
                                                5
                                                   5
                                                              4
##
   15
         1044572
                            10
                   7
##
   16
         1047630
                      4
                          6
                             4
                                 6
                                    1.000000
                                                   3
                                                              4
## 17
         1048672
                   4
                      1
                          1
                             1
                                 2
                                    1.000000
                                                2
                                                   1
                                                              2
## 18
                                 2
                                                              2
         1049815
                   4
                                    1.000000
                                                3
                                                       1
                      1
                          1
                              1
                                                   1
                          7
                                 4 10.000000
                                                              4
##
  19
         1050670 10
                      7
                              6
                                                4
## 20
                   6
                                 2
                                    1.000000
                                                3
                                                              2
         1050718
                      1
                          1
                              1
##
  21
         1054590
                   7
                      3
                          2 10
                                 5 10.000000
                                                5
                                                              4
##
   22
         1054593 10
                      5
                          5
                             3
                                 6
                                    7.000000
                                                7
                                                  10
                                                              4
## 23
         1056784
                   3
                             1
                                 2
                                    1.000000
                                                2
                                                   1
                                                              2
                      1
                          1
                                 2
## 24
         1057013
                   8
                      4
                          5
                             1
                                    3.544656
                                                7
                                                   3
                                                              4
                                                              2
## 25
         1059552
                   1
                      1
                          1
                              1
                                 2
                                    1.000000
                                                3
                                                   1
##
   26
         1065726
                   5
                      2
                          3
                             4
                                 2
                                    7.000000
                                                3
                                                   6
                                                              4
                   3
                      2
                                                2
                                                              2
## 27
         1066373
                          1
                             1
                                 1
                                    1.000000
                                                   1
                                                       1
## 28
         1066979
                   5
                      1
                          1
                             1
                                    1.000000
                                                2
                                                              2
                   2
                                                2
                                                              2
## 29
         1067444
                      1
                          1
                             1
                                    1.000000
```

```
## 30
         1070935
                   1
                       1
                          3
                              1
                                 2
                                    1.000000
                                                 1
                                                    1
                                                               2
## 31
                   3
                       1
                                 1
                                                 2
                                                     1
                                                               2
         1070935
                           1
                              1
                                     1.000000
                                                        1
##
   32
         1071760
                   2
                                  2
                                     1.000000
                                                 3
                                                               2
##
   33
         1072179 10
                       7
                           7
                              3
                                 8
                                     5.000000
                                                 7
                                                               4
                                                        3
##
   34
         1074610
                    2
                       1
                           1
                              2
                                  2
                                     1.000000
                                                 3
                                                    1
                                                               2
         1075123
                   3
                                  2
                                     1.000000
                                                 2
                                                               2
##
   35
                       1
                           2
                              1
                                                        1
                                                     1
                   2
                                  2
                                                               2
##
   36
         1079304
                       1
                              1
                                     1.000000
                                                     1
## 37
         1080185 10 10 10
                              8
                                  6
                                     1.000000
                                                 8
                                                    9
                                                        1
                                                               4
##
   38
         1081791
                   6
                       2
                           1
                              1
                                  1
                                     1.000000
                                                 7
                                                     1
                                                        1
                                                               2
##
   39
         1084584
                   5
                       4
                           4
                              9
                                  2 10.000000
                                                 5
                                                     6
                                                        1
                                                               4
##
   40
         1091262
                   2
                       5
                           3
                              3
                                  6
                                     7.000000
                                                 7
                                                     5
                                                        1
                                                               4
                                                               2
         1096800
                   6
                       6
                           6
                              9
##
   41
                                  6
                                     3.544656
                                                 7
                                                    8
                                                        1
##
   42
         1099510 10
                       4
                           3
                              1
                                  3
                                     3.000000
                                                 6
                                                    5
                                                        2
                                                               4
                              2
                                  8 10.000000
                                                 7
##
   43
         1100524
                   6 10 10
                                                     3
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## 114
        1173216 10 10 10
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## 130
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```

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##
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   188
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                                 6 10.000000
                                                   7
                                                              4
##
         1206841 10
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                                                7
                                                      10
## 189
         1207986
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                          4
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                                 5
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                                                              4
## 190
         1208301
                  1
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                                                   1
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## 191
        1210963 10 10 10 8
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                                                7 10
                                                              4
```

```
1211202 7 5 10 10 10 10.000000 4 10
## 193
        1212232
                  5
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## 194
        1212251
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  195
        1212422
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##
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##
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   202
        1216694 10
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                         8
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##
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        1216947
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                         1
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##
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        1217051
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        1218105
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##
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        1218741 10 10
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##
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##
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        1219406
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                                1
##
  211
        1219525
                  8 10 10 10
                                5 10.000000
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                                                            4
## 212
        1219859
                  8 10
                         8
                            8
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                                   8.000000
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                                                            4
## 213
        1220330
                                2
                                   1.000000
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                  1
        1221863 10 10 10 10
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                                              7 10
## 214
                                                            4
        1222047 10 10 10 10
                                3 10.000000 10
## 215
                                                     1
                                                            4
## 216
        1222936
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                         8
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                                   5.000000
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                                                            4
## 217
        1223282
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## 218
        1223426
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                         7
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##
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                                                            2
## 220
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## 221
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## 222
        1225799 10
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        1241559 10
                         8
                                8 10.000000
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##
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##
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        1241679
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##
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##
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##
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         128059
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```

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## 246
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## 247
                   8 10 10
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##
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          145447
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##
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         1017023
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                                                              2
##
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         1100524
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                                 8 10.000000
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                                                    3
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##
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         1116116
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                                                    3
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##
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         1168736
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##
         1182404
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##
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         1182404
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##
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         1198641
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##
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          255644 10
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                             6 10 10.000000 10
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##
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          263538
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##
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          303213 10
##
   264
                       4
                          4 10
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                                                              4
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##
   265
          314428
                   7
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                          4 10 10
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                                                              4
##
   266
         1182404
                   5
                       1
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         1198641 10
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##
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##
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          324427 10
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                          8
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##
   269
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                                                   7
## 270
                                                              2
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##
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##
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##
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## 275
          431495
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## 276
          432809
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##
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##
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##
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##
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                                                              4
##
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          492268 10
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##
          508234
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##
   285
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                                                   8
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##
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   287
          529329 10 10 10 10 10 10.000000
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##
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                                                      10
##
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##
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          555977
##
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## 291
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##
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##
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##
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##
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          606140
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                              1
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##
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          606722
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##
  297
          616240
                   5
                       3
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                                                   7
## 298
           61634
                   5
                       4
                          3
                              1
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                                                   3
                                                       1
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## 299
          625201
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```

```
## 300
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## 301
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                                                                4
##
          640744 10 10 10
                                                       10
##
   304
          646904
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                       1
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                                                     1
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##
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##
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##
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##
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##
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##
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##
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          770066
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                                                                2
##
                    5
                       2
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                                     1.000000
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                                                     2
                                                         1
##
   334
          785208
                    5
                       4
                           6
                               6
                                  4
                                    10.000000
                                                     3
                                                                4
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   335
          785615
                              3
                                  3 10.000000
                                                                4
##
                    8
                       6
                           7
                                                 3
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                                                         2
##
   336
          792744
                                  2
                                     1.000000
                                                                2
##
   337
          797327
                    6
                           5
                              8
                                  4 10.000000
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                                                                4
                       5
                                                     4
                                                         1
##
   338
          798429
                    1
                               1
                                  2
                                     1.000000
                                                  3
                                                                2
                       1
                           1
                                                     1
                                                  2
                                                                2
##
   339
          704097
                    1
                       1
                               1
                                  1
                                     1.000000
                           1
                                                     1
   340
          806423
                    8
                                                                4
##
                       5
                           5
                              5
                                  2 10.000000
                                                 4
                                                     3
   341
          809912 10
                           3
                                  2 10.000000
                                                                4
##
                       3
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                                                 7
                                                     6
                                                         1
##
   342
          810104
                    1
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                           1
                              1
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                                                                2
##
   343
          814265
                    2
                                  2
                                     1.000000
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                               1
                                                 1
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                                  2
                                                                2
##
   344
          814911
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                       1
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   345
          822829
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                       6
                           4
                              8
                                 10 10.000000
                                                  9
                                                     5
##
                                                         3
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                                                                2
##
   346
          826923
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                       1
                           1
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                                      1.000000
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                    5
                       2
                           2
                               2
                                                                2
##
   347
          830690
                                  3
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##
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          831268
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                                                     3
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                                                         1
##
   349
          832226
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   350
          832567
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                                  3
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                                                                4
##
                    4
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                           3
                                      8.000000
                                                     6
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                                                                2
##
   351
          836433
                    5
                               3
                                      1.000000
##
   352
          837082
                    2
                                  2
                                     1.000000
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                                                                2
                       1
                           1
                               1
                                  7
## 353
          846832
                   3
                       4
                           5
                              3
                                     3.000000
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```

```
## 354
          850831 2 7 10 10 7 10.000000
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                                                               4
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##
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##
   356
          857774
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          859164
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                                  3
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                                                               4
##
                       3
                              1
##
   358
          859350
                    8
                      10 10
                              7
                                10 10.000000
                                                 7
                                                               4
                                                        3
##
   359
          866325
                   8 10
                           5
                              3
                                  8
                                     4.000000
                                                 4 10
                                                               4
                                  3
##
   360
          873549 10
                       3
                           5
                              4
                                     7.000000
                                                     5
                                                               4
                                                 8 10
##
   361
          877291
                    6 10 10 10 10 10.000000
                                                       10
                                                               4
##
   362
          877943
                    3 10
                           3
                             10
                                  6 10.000000
                                                 5
                                                     1
                                                               4
                                                               2
##
   363
          888169
                    3
                       2
                           2
                              1
                                  4
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                                                 2
                                                     1
##
   364
          888523
                    4
                       4
                           4
                              2
                                  2
                                     3.000000
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                                                               2
                                                     1
                                                        1
                                                               2
                    2
                                  2
##
   365
          896404
                       1
                           1
                              1
                                     1.000000
                                                 3
                                                     1
                                                        1
##
   366
          897172
                    2
                              1
                                  2
                                     1.000000
                                                 2
                                                    1
                                                               2
                       1
                          1
                                                        1
                                  8 10.000000
                                                        7
##
   367
           95719
                    6
                      10 10 10
                                                 7 10
                                                               4
   368
          160296
                    5
                       8
                           8
                                  5 10.000000
                                                        3
                                                               4
##
                             10
                                                 8 10
##
   369
          342245
                    1
                       1
                           3
                              1
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                                                 1
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                                                               2
          428598
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                                                               2
##
   370
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                              1
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                                                        1
##
   371
          492561
                    4
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                              1
   372
          493452
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##
                    1
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##
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          493452
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                       1
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                                                               2
##
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          521441
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##
   376
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          640712
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##
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                                     1.000000
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                                                               2
##
   378
          654244
                    1
                       1
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##
   379
          657753
                    3
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          685977
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                                                               2
##
                    5
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                              1
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          805448
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                                                               2
##
   381
                    1
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                           1
          846423 10
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                           3
                              6
                                  4 10.000000
##
   382
                                                     8
                                                               4
##
   383
         1002504
                    3
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                                  2
                                     1.000000
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                                                               2
##
   384
         1022257
                    2
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                              1
                                  2
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                                                               2
##
   385
         1026122
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                                                               2
##
   386
         1071084
                    3
                       3
                           2
                              2
                                  3
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                    7
                                  2 10.000000
##
   387
         1080233
                       6
                           6
                              3
                                                 7
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                                                               2
##
   388
         1114570
                    5
                       3
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                                                     1
   389
                    2
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##
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##
   390
         1116715
                    5
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##
   391
         1131411
                              2
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                                                        1
                           1
   392
         1151734 10
                       8
                           7
                              4
                                  3
                                    10.000000
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                                                               4
##
                    3
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                                                 2
                                                               2
##
   393
         1156017
                       1
                              1
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                           1
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##
   394
         1158247
                    1
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                                     1.000000
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                                                     1
   395
         1158405
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##
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##
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         1168278
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                                                               2
##
   397
         1176187
                    3
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                           1
                              1
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                                                               2
##
   398
         1196263
                    4
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                                                        1
                           1
                                  2
                                                               2
         1196475
                    3
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                                                     2
##
   399
                           1
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                                  2
##
   400
         1206314
                    1
                       2
                           3
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                                     1.000000
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                                                        1
                                                               2
                              7
##
   401
         1211265
                    3 10
                           8
                                  6
                                     9.000000
                                                 9
                                                     3
                                                               4
##
   402
         1213784
                    3
                                  2
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                                                 1
                                                               2
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                           1
                              1
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                                  2
                                                               2
##
   403
         1223003
                    5
                       3
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                                     1.000000
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                                                     1
         1223306
                                  2
                                                               2
##
   404
                    3
                                     4.000000
                                                 1
                       1
                           1
                              1
                                                     1
                                                        1
                                  2
                                                               2
##
   405
         1223543
                    1
                       2
                              3
                                     1.000000
                                                 1
                                                     2
## 406
         1229929
                    1
                              1
                                  2
                                     1.000000
                                                 2
                                                     1
                                                        1
                                                               2
                       1
                           1
                                  2
                                                 2
## 407
         1231853
                   4
                       2
                           2
                              1
                                     1.000000
                                                     1
                                                               2
```

```
## 408
         1234554
                  1
                      1
                          1
                             1
                                 2 1.000000
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                                                   1
                                                              2
## 409
                   2
                      3
                          2
                             2
                                 2
                                                3
                                                   1
                                                              2
         1236837
                                    2.000000
## 410
         1237674
                   3
                                 2
                                    1.000000
                                                              2
         1238021
                                 2
                                    1.000000
                                                2
                                                              2
## 411
                   1
                      1
                          1
                              1
## 412
         1238464
                   1
                      1
                          1
                             1
                                 1
                                    3.544656
                                                              2
                             6
                                 8
                                    4.000000
## 413
         1238633 10 10 10
                                                8
                                                   5
                                                       1
                                                              4
                                 2
## 414
        1238915
                   5
                      1
                          2
                             1
                                    1.000000
                                                3
                                                   1
                                                              2
## 415
        1238948
                   8
                      5
                          6
                             2
                                 3 10.000000
                                                6
                                                   6
                                                       1
                                                              4
## 416
         1239232
                   3
                      3
                          2
                              6
                                 3
                                    3.000000
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                                                   5
                                                       1
                                                              2
## 417
         1239347
                   8
                      7
                          8
                             5 10 10.000000
                                                7
                                                   2
                                                       1
                                                              4
## 418
         1239967
                   1
                             1
                                 2
                                    1.000000
                                                2
                                                              2
                      1
                          1
                                                   1
                                 2
                                                              2
                      2
                          2
                             2
                                                   2
                                                       2
## 419
         1240337
                   5
                                    2.000000
                                                3
##
   420
         1253505
                   2
                      3
                          1
                             1
                                 5
                                    1.000000
                                                1
                                                              2
                                                   1
                                                       1
                          2
                                 2
                                    3.000000
                                                              2
##
   421
         1255384
                   3
                      2
                             3
                                                3
                                                   1
##
  422
         1257200 10 10 10
                             7 10 10.000000
                                                8
                                                   2
                                                       1
                                                              4
##
   423
         1257648
                   4
                      3
                          3
                              1
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                                                   3
                                                       1
                                                              2
                   5
                                 2
                                                2
                                                              2
##
   424
         1257815
                      1
                          3
                             1
                                    1.000000
                                                   1
                                                       1
##
   425
         1257938
                   3
                                 2
                                    1.000000
                                                              2
                      1
                             1
         1258549
##
   426
                   9 10 10 10 10 10.000000 10 10
                                                              4
                                                       1
##
   427
         1258556
                   5
                      3
                          6
                             1
                                 2
                                    1.000000
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                                                              2
##
   428
         1266154
                   8
                      7
                          8
                             2
                                 4
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                                               5 10
                                                       1
                                                              4
  429
         1272039
                                 2
                                    1.000000
                                                              2
##
                   1
        1276091
                   2
                                 2
                                                2
                                                              2
## 430
                             1
                                    1.000000
                                                   1
                      1
                          1
                                                       1
         1276091
                                 2
                                                2
                                                              2
##
  431
                   1
                      3
                          1
                             1
                                    1.000000
                                                   2
                                                              2
## 432
         1276091
                   5
                      1
                          1
                              3
                                 4
                                    1.000000
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                                                   2
##
   433
         1277629
                   5
                      1
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##
   434
         1293439
                   3
                      2
                          2
                              3
                                 2
                                    1.000000
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                                                1
                                                   1
                                                       1
                          7
                              5
                                 5
                                                              2
##
   435
         1293439
                   6
                      9
                                    8.000000
                                                4
                                                   2
                                                       1
   436
                      8 10
                                 3 10.000000
                                                5
##
         1294562 10
                             1
                                                   1
                                                       1
                                                              4
##
  437
         1295186 10 10 10
                                 6
                                    1.000000
                                                2
                                                   8
                                                       1
                                                              4
                             1
## 438
          527337
                   4
                      1
                          1
                              1
                                 2
                                    1.000000
                                                1
                                                   1
                                                       1
                                                              2
##
   439
          558538
                   4
                      1
                          3
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                                 2
                                    1.000000
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                                                   1
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                                                              2
                                                              2
##
   440
          566509
                   5
                      1
                                 2
                                    1.000000
##
   441
          608157 10
                          3
                            10
                                 4 10.000000 10
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##
   442
          677910
                   5
                      2
                          2
                              4
                                 2
                                    4.000000
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          734111
##
   443
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                                                              2
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##
   444
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  445
          780555
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##
                      1
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                                                       1
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                                                              2
##
                      1
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         1049837
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##
  447
                   1
                              1
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         1058849
                                                              2
##
   448
                   5
                      1
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                                                   1
         1182404
                                    1.000000
                                                              2
##
   449
                   1
                      1
                          1
                              1
                                 1
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                                                   1
##
   450
         1193544
                   5
                      7
                          9
                             8
                                 6 10.000000
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                                                       1
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                                                              2
##
   451
         1201870
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##
   452
         1202253
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  453
         1227081
                   3
                              3
##
                      1
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                                                       1
##
   454
         1230994
                   4
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                          5
                             8
                                 6 10.000000 10
                                                   7
                                                       1
                                                              4
                   2
                                                              2
##
   455
         1238410
                      3
                          1
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                                    1.000000
##
   456
         1246562 10
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                          2
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##
   457
         1257470 10
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                          5
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                                   10.000000
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                                                              4
   458
         1259008
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                      8
                          9
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                                    3.000000 10 10
                                                              4
##
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                                                       1
                                                              2
##
   459
         1266124
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                      1
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                                 2
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## 460
         1267898
                   5
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                                    1.000000
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                      1
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                                 2
## 461
        1268313 5
                      1
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```

```
## 462
         1268804
                   3
                      1
                          1
                             1
                                 2 5.000000
                                                1
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##
                   6
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                                                               2
   463
         1276091
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                          1
                                     1.000000
                                     1.000000
##
   464
         1280258
                   4
                                 2
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         1293966
                                 2
                                     1.000000
                                                               2
##
   465
                   4
                       1
                          1
                              1
                                                 1
##
   466
         1296572 10
                       9
                          8
                              7
                                  6
                                     4.000000
                                                7
                                                   10
                                                        3
                                                               4
                          6
                              2
                                 4 10.000000
##
   467
         1298416 10
                       6
                                                9
                                                        1
                                                               4
                                                        2
##
   468
         1299596
                   6
                       6
                          6
                              5
                                 4 10.000000
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                                                    6
                                                               4
                                  2
## 469
         1105524
                   4
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                                                               2
##
   470
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## 471
         1211594
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                                     1.000000
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                                                        1
## 472
         1238777
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                                  2
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                                                    1
                                                               2
## 473
         1257608
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                                                    1
##
   474
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##
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##
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##
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##
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##
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##
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## 568
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## 569
         1343068
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```

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## 571
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## 572
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## 573
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## 576
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         1057067
                   1
                                  1
                                     3.544656
                                                 1
                                                               2
                       1
                          1
                              1
                                                    1
                                                               2
##
   619
         1061990
                   4
                              1
                                  2
                                     1.000000
                                                 2
                                                    1
                   5
                                 2
                                                2
                                                               2
##
   620
         1073836
                                     1.000000
                                                    1
                       1
                          1
                              1
                                                        1
                                 2
                                                               2
##
   621
         1083817
                   3
                       1
                              1
                                     1.000000
                                                2
                                                    1
## 622
         1096352
                   6
                       3
                          3
                              3
                                 3
                                     2.000000
                                                6
                                                    1
                                                       1
                                                               2
                              3
                                 2
## 623
         1140597
                   7
                       1
                          2
                                     1.000000
                                                2
                                                    1
                                                               2
```

```
## 624
         1149548
                  1
                       1
                          1
                              1
                                  2 1.000000
                                                1
                                                    1
                                                               2
##
   625
                   5
                              2
                                  1
                                                 2
                                                     1
                                                               2
         1174009
                       1
                           1
                                     1.000000
                                     4.000000
##
   626
         1183596
                    3
                                  3
                                                               2
##
   627
         1190386
                              5
                                  7
                                     6.000000
                                                               4
                    4
                       6
                           6
                                                 7
##
   628
         1190546
                    2
                       1
                           1
                              1
                                  2
                                     5.000000
                                                     1
                                                               2
                                  2
                                     1.000000
                                                               2
##
   629
         1213273
                    2
                              1
                       1
                           1
                                  2
                                                               2
##
   630
         1218982
                    4
                       1
                           1
                              1
                                     1.000000
                                                     1
                                  2
## 631
         1225382
                    6
                       2
                           3
                              1
                                     1.000000
                                                 1
                                                     1
                                                        1
                                                               2
##
   632
         1235807
                    5
                       1
                           1
                              1
                                  2
                                     1.000000
                                                 2
                                                     1
                                                        1
                                                               2
                                                               2
##
   633
         1238777
                    1
                       1
                           1
                              1
                                  2
                                     1.000000
                                                 1
                                                     1
##
   634
         1253955
                    8
                       7
                           4
                              4
                                  5
                                     3.000000
                                                 5 10
                                                               4
                                                        1
                                                               2
   635
         1257366
                                  2
##
                    3
                       1
                           1
                              1
                                     1.000000
                                                 1
                                                    1
##
   636
         1260659
                    3
                           4
                              1
                                  2
                                     1.000000
                                                 1
                                                    1
                                                               2
                       1
                                                        1
                           7
                                  7
                                     1.000000 10 10
##
   637
         1268952 10 10
                              8
                                                        3
                                                               4
   638
         1275807
                       2
                              3
                                  2
                                     2.000000
                                                 2
                                                               2
##
                    4
                           4
                                                     1
                                                        1
                                  2
##
   639
         1277792
                    4
                       1
                           1
                              1
                                     1.000000
                                                 1
                                                     1
                                                               2
                    5
                              3
                                  2
                                                               2
##
   640
         1277792
                                     1.000000
                                                 1
                       1
                           1
                                                     1
                                                        1
##
   641
         1285722
                              3
                                  2
                                     1.000000
                                                               2
                       1
                                     1.000000
         1288608
                                  2
                                                               2
##
   642
                    3
                              1
                                                 2
                       1
                           1
                                                     1
##
   643
         1290203
                    3
                                  2
                                     1.000000
                                                 2
                                                               2
##
   644
         1294413
                    1
                              1
                                  2
                                     1.000000
                                                     1
                                                        1
                                                               2
                       1
                           1
   645
         1299596
                    2
                                  2
                                     1.000000
                                                               2
##
                                  2
                                                 2
                                                               2
##
   646
         1303489
                    3
                              1
                                     1.000000
                       1
                           1
                                                     1
                                                        1
         1311033
                           2
                                  2
                                     1.000000
                                                               2
##
   647
                    1
                       2
                              1
                                                 1
                                                     1
                                                               2
##
   648
         1311108
                   1
                       1
                           1
                              3
                                  2
                                     1.000000
                                                 1
                                                     1
##
   649
         1315807
                    5 10 10 10 10
                                     2.000000 10 10 10
                                                               4
##
   650
         1318671
                                  2
                                     1.000000
                                                 2
                                                               2
                    3
                       1
                           1
                              1
                                                     1
                              2
                                  3
                                     4.000000
                                                               2
##
   651
         1319609
                    3
                       1
                           1
                                                 1
                                                    1
                                                        1
                                  2
                                                               2
   652
                       2
                              3
                                     1.000000
                                                 2
##
         1323477
                    1
                           1
                                                     1
##
   653
         1324572
                    5
                              1
                                  2
                                     1.000000
                                                 2
                                                     2
                                                        1
                                                               2
                       1
                           1
                                  2
##
   654
         1324681
                    4
                       1
                           1
                              1
                                     1.000000
                                                 2
                                                     1
                                                        1
                                                               2
##
   655
         1325159
                    3
                       1
                           1
                              1
                                  2
                                     1.000000
                                                 3
                                                     1
                                                        1
                                                               2
                                                               2
##
   656
         1326892
                    3
                                  2
                                     1.000000
                                                 2
                                  2
                                                               2
##
   657
         1330361
                    5
                                     1.000000
                                                 2
                       1
                              1
                                                     1
                           1
##
   658
         1333877
                    5
                       4
                           5
                              1
                                  8
                                     1.000000
                                                 3
                                                     6
                                                               2
   659
         1334015
                    7
                       8
                              7
                                  3 10.000000
                                                 7
                                                     2
                                                        3
                                                               4
##
                           8
##
   660
         1334667
                                  2
                                     1.000000
                                                               2
   661
         1339781
                                  2
                                     1.000000
                                                 2
                                                               2
##
                    1
                           1
                              1
                                                     1
                                                        1
                       1
         1339781
                    4
                              1
                                  2
                                     1.000000
                                                 3
                                                               2
##
   662
                       1
                           1
                                                     1
                                  2
                                     1.000000
                                                 2
                                                               2
##
   663 13454352
                    1
                           3
                              1
                                                     1
                       1
                                  2
                                     1.000000
                                                               2
##
   664
         1345452
                    1
                       1
                           3
                              1
                                                 2
                                                     1
   665
         1345593
                    3
                              3
                                  2
                                     1.000000
                                                 2
                                                               2
##
                       1
                           1
                                                     1
                                                        1
                                     1.000000
                                                               2
##
   666
         1347749
                    1
                       1
                           1
                              1
                                  2
                                                 1
                                                     1
                                                        1
                              2
                                  2
                                                               2
##
         1347943
                    5
                       2
                           2
                                     1.000000
                                                        2
   667
                                                 1
                                                     1
                                  2
                                                               2
##
   668
         1348851
                    3
                       1
                           1
                              1
                                     1.000000
                                                 3
                                                     1
                                                        1
                                                 7
   669
         1350319
                    5
                       7
                                  6
                                     1.000000
##
                           4
                              1
                                                   10
                                                        3
                                                               4
##
   670
         1350423
                    5 10 10
                              8
                                  5
                                     5.000000
                                                 7
                                                    10
                                                        1
                                                               4
##
   671
         1352848
                    3 10
                           7
                              8
                                  5
                                     8.000000
                                                 7
                                                               4
##
   672
         1353092
                    3
                       2
                              2
                                  2
                                     1.000000
                                                 3
                                                     1
                                                               2
                           1
                                  2
                                                               2
##
   673
         1354840
                    2
                       1
                              1
                                     1.000000
                                                 3
   674
         1354840
                    5
                           2
                                  3
                                     1.000000
                                                               2
##
                       3
                              1
                                                 1
                                                     1
                                                        1
                                  2
                                                               2
##
   675
         1355260
                    1
                       1
                              1
                                     1.000000
                                                 2
                                                     1
## 676
         1365075
                    4
                           4
                              1
                                  2
                                     1.000000
                                                 1
                                                     1
                                                        1
                                                               2
                       1
                                  2
                                                 2
## 677
         1365328
                   1
                       1
                          2
                              1
                                     1.000000
                                                     1
                                                               2
```

```
## 678
        1368267 5
                   1
                       1 1
                             2 1.000000
                             2
                                                       2
## 679
        1368273 1
                    1
                       1
                          1
                                1.000000
                                          1
                                             1
## 680
                                1.000000
                                                       2
        1368882 2
                    1
                             2
  681
        1369821 10 10 10 10
                             5 10.000000 10 10
                                                       4
##
##
  682
        1371026
                5 10 10 10
                             4 10.000000
                                          5
                                             6
                                                       4
  683
        1371920 5
                   1
                             2
                                1.000000
                                          3
                                             2
                                                       2
##
                       1
                          1
## 684
         466906
                1
                    1
                       1
                          1
                             2
                                1.000000
                                                       2
                                                       2
## 685
         466906
                             2
                                1.000000
                1
                    1
                       1
                          1
                                          1
                                             1
                                                1
## 686
         534555
                1
                    1
                       1
                          1
                             2
                                1.000000
                                          1
                                                       2
## 687
         536708 1
                             2
                                1.000000
                                          1
                                                       2
                    1
                       1
                          1
                                             1
## 688
         566346
                3 1
                       1
                          1
                             2
                                1.000000
                                                       2
                             2
                                1.000000
                                                       2
## 689
         603148 4
                   1
                          1
                                          1
                       1
                                             1
## 690
         654546 1
                             2
                                1.000000
                                                       2
                   1
                       1
                          1
                                             1
                             2
                                                       2
## 691
         654546 1
                          3
                                1.000000
                   1
## 692
         695091 5 10 10
                          5
                             4
                                5.000000
                                          4
                                             4
                                                1
                                                       4
                             2
                                                       2
## 693
         714039
                3
                   1
                       1
                          1
                                1.000000
                                          1
                                              1
                                                1
## 694
         763235 3
                   1
                          1
                             2
                                1.000000
                                          2
                                             1
                                                       2
                       1
                                                       2
         776715 3 1
## 695
                             3
                                2.000000
## 696
         841769
                2
                             2
                                1.000000
                                          1
                                                       2
                   1
                       1
                          1
                                                       4
## 697
         888820 5 10 10
                          3
                             7
                                3.000000
                                         8 10
         897471 4
##
  698
                   8
                      6
                          4
                             3
                                4.000000 10
                                             6
                                                1
                                                       4
## 699
         897471 4
                   8
                      8
                          5
                             4
                                5.000000 10
```

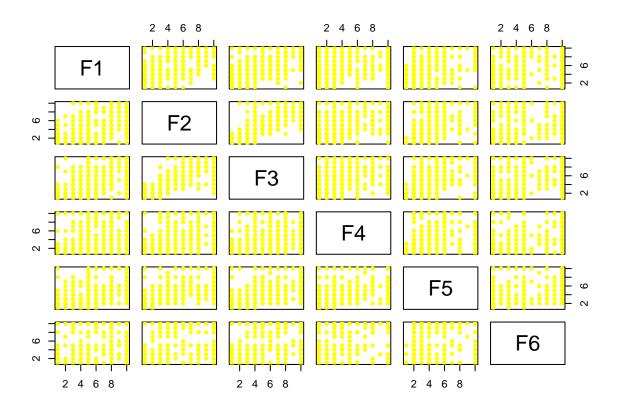
Subquestion IV. Displaying the frequency table of "Class" vs. F6

```
BCR_Class <- Breast_Cancer_Wisconsin$Class
transform(table(Breast_Cancer_Wisconsin$F6,BCR_Class))</pre>
```

```
##
       Var1 BCR_Class Freq
## 1
          1
                      2
                         387
## 2
          2
                      2
                           21
## 3
          3
                      2
                           14
                      2
## 4
          4
                            6
## 5
          5
                      2
                           10
## 6
                      2
          6
                            0
## 7
          7
                      2
                            1
## 8
                      2
                            2
          8
                      2
## 9
          9
                            0
## 10
         10
                      2
                            3
## 11
                      4
                           15
          1
## 12
          2
                      4
                            9
                      4
## 13
          3
                           14
##
   14
          4
                      4
                           13
## 15
          5
                      4
                           20
##
   16
          6
                      4
                            4
          7
                            7
## 17
## 18
          8
                           19
## 19
          9
                      4
                            9
## 20
                         129
         10
```

Subquestion V. Displaying the scatter plot of F1 to F6, one pair at a time

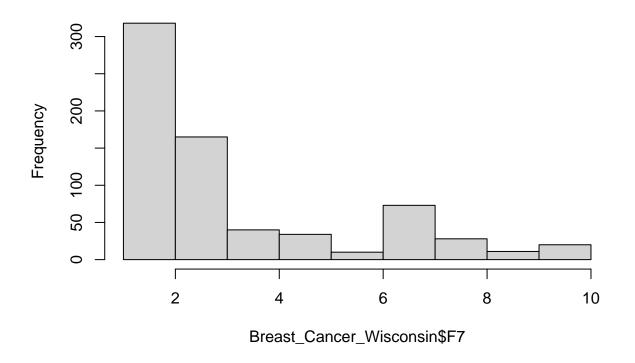
pairs(Breast_Cancer_Wisconsin[2:7],pch = 20, col = 'yellow')



Subquestion VI. Show histogram box plot for columns F7 to F9

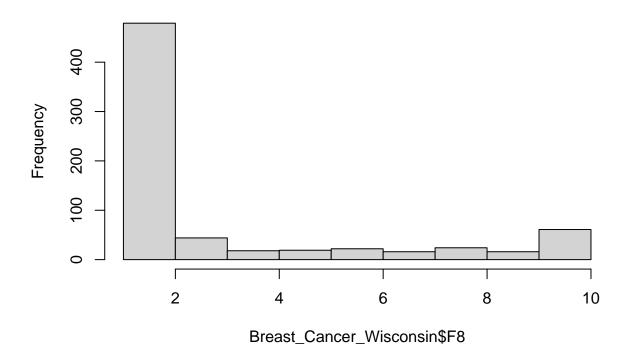
F7 <- hist(Breast_Cancer_Wisconsin\$F7)

Histogram of Breast_Cancer_Wisconsin\$F7



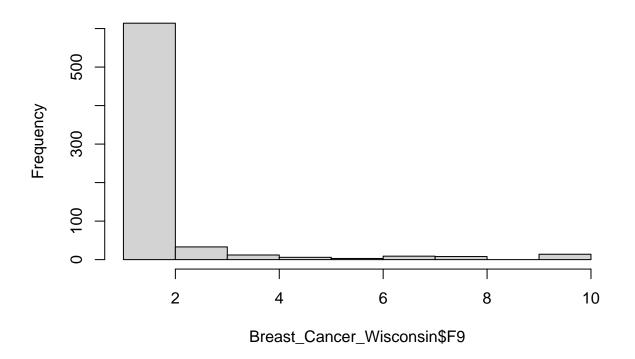
F8 <- hist(Breast_Cancer_Wisconsin\$F8)

Histogram of Breast_Cancer_Wisconsin\$F8



F9 <- hist(Breast_Cancer_Wisconsin\$F9)

Histogram of Breast_Cancer_Wisconsin\$F9



```
#Range of X-axis

Xrange <- range(c(F7$breaks, F8$breaks, F9$breaks))

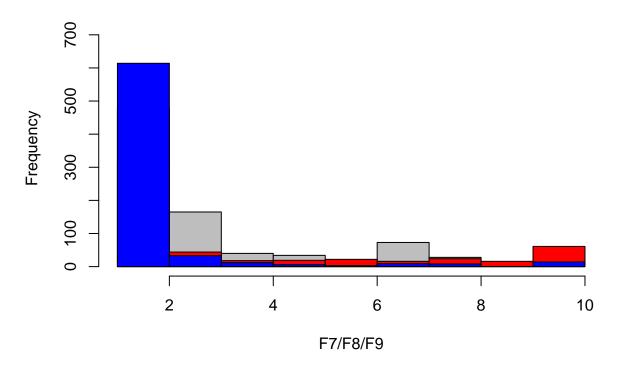
#Range of Y-axis

Yrange <- max(c(F7$count, F8$count, F9$count))

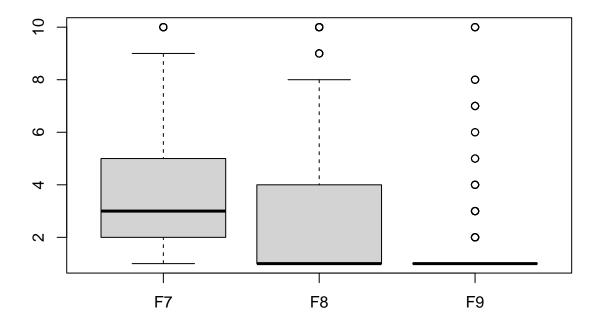
##Histogram

plot(F7, col = 'grey', main = 'Histogram of F7,F8 and F9', xlab = 'F7/F8/F9',xlim = c(Xrange), ylim = c
plot(F8, add = TRUE, col = 'red')
plot(F9, add = TRUE, col = 'blue')</pre>
```

Histogram of F7,F8 and F9



boxplot(Breast_Cancer_Wisconsin[8:10])



###2- Delete all the objects from your R- environment. Reload the "breast-cancer-wisconsin.data.csv" from canvas into R. Remove any row with a missing value in any of the columns.

```
rm(list=ls())

BCW <- read.csv("C:/breast-cancer-wisconsin.data.csv", header = TRUE, na.strings = c("?"))
BCW <- na.omit(BCW)

BCW</pre>
```

```
##
          Sample F1 F2 F3
                             F4
                                F5 F6
                                       F7 F8 F9
## 1
         1000025
                    5
                                  2
                                      1
                                         3
                                                1
                                                        2
                               5
                                  7
                                                        2
## 2
         1002945
                    5
                                     10
                                         3
                                             2
                                                1
## 3
         1015425
                    3
                               1
                                  2
                                      2
                                         3
                                                        2
                    6
                       8
                           8
                                  3
                                             7
                                                        2
## 4
         1016277
                               1
                                      4
                                         3
## 5
         1017023
                    4
                       1
                           1
                               3
                                  2
                                      1
                                         3
                                                        2
                                                        4
## 6
         1017122
                    8 10
                         10
                               8
                                  7
                                     10
## 7
                                  2
                                    10
                                         3
                                                        2
         1018099
                    1
                       1
                               1
                                                1
                           2
                                  2
                                                        2
## 8
         1018561
                    2
                                      1
                                         3
## 9
         1033078
                    2
                       1
                           1
                               1
                                  2
                                      1
                                         1
                                                5
                                                        2
                       2
                                  2
## 10
                    4
                                         2
                                                        2
         1033078
## 11
         1035283
                               1
                                  1
                                         3
                                                        2
                    1
                       1
                           1
                                      1
## 12
         1036172
                    2
                       1
                           1
                               1
                                  2
                                      1
                                         2
                                                        2
                                  2
## 13
         1041801
                    5
                       3
                           3
                               3
                                      3
                                         4
                                             4
                                                        4
                                                1
                                  2
                                                        2
## 14
         1043999
                    1
                       1
                           1
                               1
                                      3
                                         3
                                             1
                                                1
## 15
         1044572
                    8
                       7
                           5 10
                                  7
                                             5
                                                        4
```

```
## 16
         1047630 7 4 6 4
                                 6
                                    1 4
                                           3
## 17
         1048672
                  4
                      1
                          1
                             1
                                 2
                                    1
                                       2
                                                     2
                                           1
## 18
         1049815
                  4
                             6
## 19
         1050670 10
                      7
                          7
                                 4 10
                                                     4
                                        4
## 20
         1050718
                   6
                      1
                          1
                             1
                                 2
                                    1
                                        3
                                               1
                                                     2
## 21
         1054590
                  7
                      3
                          2 10
                                 5 10
                                           4
                                        5
                                                     4
## 22
         1054593 10
                      5
                          5
                             3
                                 6
                                        7 10
                                               1
                                 2
## 23
         1056784
                   3
                      1
                          1
                             1
                                    1
                                        2
                                           1
                                               1
                                                     2
         1059552
## 25
                   1
                      1
                          1
                             1
                                 2
                                    1
                                        3
                                           1
                                               1
                                                     2
                   5
                      2
                                 2
                                    7
                                                     4
## 26
         1065726
                          3
                             4
                                        3
                                           6
                                               1
## 27
         1066373
                   3
                      2
                          1
                             1
                                 1
                                    1
                                        2
                                           1
                                               1
                                                     2
                                 2
                                                     2
## 28
         1066979
                   5
                                        2
                      1
                          1
                             1
                                    1
                                           1
                                               1
         1067444
                                 2
## 29
                   2
                      1
                             1
                                    1
                                        2
                                           1
                                                     2
                          1
                                              1
## 30
         1070935
                                 2
                                                     2
                  1
                      1
                          3
                             1
                                    1
                                        1
## 31
         1070935
                   3
                                        2
                                                     2
                      1
                          1
                             1
                                 1
                                    1
                                           1
                                               1
## 32
         1071760
                   2
                      1
                          1
                             1
                                 2
                                    1
                                        3
                                           1
                                                     2
## 33
         1072179 10
                      7
                          7
                             3
                                 8
                                    5
                                       7
                                                     4
                                           4
                                              3
## 34
         1074610
                  2
                             2
                                 2
                                        3
## 35
         1075123
                  3
                          2
                                 2
                                       2
                                                     2
                      1
                             1
                                    1
                                           1
                                               1
## 36
         1079304
                  2
                      1
                                 2
                                    1
                                        2
                                                     2
## 37
         1080185 10 10 10
                             8
                                 6
                                    1
                                       8
                                           9
                                               1
                                                     4
## 38
         1081791
                  6
                      2
                                 1
                                       7
## 39
         1084584
                   5
                      4
                             9
                                 2 10
                          4
                                        5
                                           6
                                               1
                                                     4
## 40
         1091262 2
                      5
                          3
                             3
                                 6
                                    7
                                       7
                                           5
                                                     4
                                              1
         1099510 10 4
                                 3
## 42
                          3
                             1
                                    3
                                        6
                                           5
                                              2
                                                     4
## 43
         1100524
                  6 10 10
                             2
                                 8
                                   10
                                       7
                                           3
                                               3
                                                     4
## 44
         1102573
                  5
                     6
                         5
                             6
                               10
                                        3
                                                     4
                                    1
                                           1
                                               1
## 45
         1103608 10 10 10
                                                     4
                             4
                                 8
                                    1
                                        8 10
                                              1
                                 2
                                                     2
## 46
         1103722
                                        2
                  1
                      1
                          1
                             1
                                    1
                                               2
                          7
## 47
         1105257
                   3
                      7
                             4
                                 4
                                    9
                                        4
                                           8
                                               1
                                                     4
                                 2
                                                     2
## 48
         1105524
                   1
                      1
                          1
                             1
                                    1
                                        2
                                           1
                                               1
## 49
         1106095
                   4
                      1
                          1
                             3
                                 2
                                    1
                                        3
                                           1
                                               1
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## 230
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## 232
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## 233
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## 238 1241679 9 8 8 5
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## 405
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## 406
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## 482
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## 494
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## 498
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## 499
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## 500
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## 501
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## 502
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## 503
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## 510
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        1306282 6 6
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## 516 1313325 4 10 4 7
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## 521
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## 523
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## 570
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                                6 5 10
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```

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## 571
        1344121 8 10 4 4 8 10 8 2
## 572
          142932 7
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## 573
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          324382
## 574
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## 575
          378275 10
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## 576
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## 577
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## 578
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## 579
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## 582
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## 583
        1107684
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## 584
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## 585
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## 586
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## 588
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## 589
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## 593
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## 603
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## 613
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## 623
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## 632
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## 637
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## 639
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## 641
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## 642
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## 643
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## 644
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## 645
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## 646
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## 651
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## 652
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## 657
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## 658
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## 659
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## 661
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## 662
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## 663 13454352
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## 664
        1345452
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## 665
        1345593
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        1347749
## 666
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## 667
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        1348851
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## 668
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## 669
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        1350423
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## 670
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## 671
        1352848
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## 672
        1353092
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## 673
        1354840
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## 674
        1354840
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## 675
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## 676
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## 677
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## 678
        1368267
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## 679
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```

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## 681
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## 683
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## 684
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## 686
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## 689
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## 690
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## 691
        654546
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## 692
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## 695
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## 697
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        897471 4 8 6
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## 698
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## 699
        897471 4 8 8
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