Most_Frequently_Used_R_Objects.R

015004

Tue Jan 22 10:33:12 2019

```
##################
# Load packages #
##################

library(JM)
```

```
## Loading required package: MASS
```

```
## Loading required package: nlme
```

```
## Loading required package: splines
```

```
## Loading required package: survival
```

```
#################################
# Most Frequently Used Objects #
#################################

## Create matrices
weight_columns <- cbind(pbc2.id$age, pbc2.id$years)
weight_Rows <- rbind(pbc2.id$age, pbc2.id$years)
matrix(weight_columns, , 2)
```

```
##              [,1]       [,2]
##    [1,] 58.76684  1.0951703
##    [2,] 56.44782 14.1523382
##    [3,] 70.07447  2.7707809
##    [4,] 54.74209  5.2705071
##    [5,] 38.10645  4.1205782
##    [6,] 66.26054  6.8530281
##    [7,] 55.53609  6.8475523
##    [8,] 53.05826  6.7517249
##    [9,] 42.50904  6.5710218
##   [10,] 70.56182  0.1396342
##   [11,] 53.71537 10.3000767
##   [12,] 59.13920  0.8323294
##   [13,] 45.69050 11.6279706
##   [14,] 56.22331  3.3320556
##   [15,] 64.64790  9.8127259
##   [16,] 40.44464 11.8962874
##   [17,] 52.18486  2.1054649
##   [18,] 53.93166  0.3614062
##   [19,] 49.56193 13.4185741
##   [20,] 59.95510  3.7126273
##   [21,] 64.19067 10.0125945
##   [22,] 56.27806  1.8426240
##   [23,] 55.96868  0.7228124
##   [24,] 44.52141 11.1679991
##   [25,] 45.07447 13.1310919
##   [26,] 52.02607  3.9535648
```

```
## [27,] 54.44092  0.2108203
## [28,] 44.94853  1.5031212
## [29,] 63.87855 13.8922352
## [30,] 41.38649  0.8788742
## [31,] 41.55350 10.5108969
## [32,] 53.99737 14.2153105
## [33,] 51.28409  8.6792246
## [34,] 52.06166 12.5999343
## [35,] 48.62009  7.7948746
## [36,] 56.41222 11.7210601
## [37,] 61.72927  0.6105574
## [38,] 36.62797  8.8818311
## [39,] 55.39371  6.2890154
## [40,] 46.67068 14.0619866
## [41,] 33.63542  3.6961998
## [42,] 33.69565 14.0236557
## [43,] 48.87197 14.3056620
## [44,] 37.58351  9.3856095
## [45,] 41.79444 12.8518235
## [46,] 45.80002  6.1767605
## [47,] 47.42909  8.8845691
## [48,] 49.13755 13.9524696
## [49,] 61.15431  1.9384514
## [50,] 53.51002  7.1131311
## [51,] 52.08904 10.5492279
## [52,] 50.54211  6.5326908
## [53,] 67.41047  2.7379257
## [54,] 39.19888  3.9261855
## [55,] 65.76498  3.7235790
## [56,] 33.61899  5.0569489
## [57,] 53.57299  8.9858723
## [58,] 44.57069 14.0400832
## [59,] 40.39536  6.0891469
## [60,] 58.38353 13.7827182
## [61,] 43.89990 13.4842843
## [62,] 60.70803  8.4601906
## [63,] 46.62961  2.3518782
## [64,] 62.90932  4.0712956
## [65,] 40.20370 13.2570365
## [66,] 46.45439 11.4746468
## [67,] 51.28956  7.5813164
## [68,] 32.61417 12.8901544
## [69,] 49.34016  3.2033731
## [70,] 56.40127 10.0837805
## [71,] 48.84733 13.3200088
## [72,] 32.49370 13.2871537
## [73,] 38.49524 13.3035812
## [74,] 51.92202  5.0021903
## [75,] 43.51933  3.2608696
## [76,] 51.94393  0.1943927
## [77,] 49.82751  0.8925638
## [78,] 47.94656  4.6270945
## [79,] 46.51736 11.9811631
## [80,] 67.41321  2.4367539
```

```
##  [81,] 63.26525  6.9543314
##  [82,] 67.31190  9.7853466
##  [83,] 56.01522 12.9202716
##  [84,] 55.83178 12.8709889
##  [85,] 47.21827  9.1939547
##  [86,] 52.75983  4.5367430
##  [87,] 37.27960  0.5421093
##  [88,] 41.39470  8.4218596
##  [89,] 52.44497  4.7667287
##  [90,] 33.47662  7.3622823
##  [91,] 45.60837  1.2594458
##  [92,] 76.71120  1.0650531
##  [93,] 36.53488 12.5479137
##  [94,] 53.91797  2.0534443
##  [95,] 46.39141  0.3750958
##  [96,] 48.84733 12.3754244
##  [97,] 71.89519  1.6975140
##  [98,] 28.88512 12.2987625
##  [99,] 48.46950 12.2905487
## [100,] 51.47027  1.5113350
## [101,] 44.95126 11.6361844
## [102,] 56.57102 10.3219801
## [103,] 48.96506  0.3011718
## [104,] 43.01829  8.4492389
## [105,] 34.04063  8.4656664
## [106,] 68.51112  8.8215968
## [107,] 62.52327 11.1105027
## [108,] 50.35867  7.0720622
## [109,] 44.06418  8.6874384
## [110,] 38.91140  5.5963202
## [111,] 41.15376  6.4341255
## [112,] 55.45942  9.4321542
## [113,] 51.23480  2.6037674
## [114,] 52.82828  9.2952579
## [115,] 42.64046 11.2008542
## [116,] 61.07217 10.9927719
## [117,] 49.65776  2.9651736
## [118,] 48.85555  6.2643741
## [119,] 54.25747  1.4100318
## [120,] 35.15223  5.5662030
## [121,] 67.90877  0.5229438
## [122,] 55.43752 10.8586135
## [123,] 45.82193  2.6585259
## [124,] 52.89125 10.6861242
## [125,] 47.18267  6.7572007
## [126,] 53.60037  2.2560508
## [127,] 44.10525 10.7436206
## [128,] 41.95050  2.8392290
## [129,] 63.61570 10.6998138
## [130,] 44.22845  3.8632132
## [131,] 62.00307  2.3272369
## [132,] 40.55416  9.8921257
## [133,] 62.64648  7.6552404
## [134,] 42.33655 10.4534005
```

```
## [135,] 42.96901 10.4561384
## [136,] 55.96320 10.3137663
## [137,] 62.86278 10.0180703
## [138,] 51.25123  3.5510897
## [139,] 46.76377  6.4532910
## [140,] 54.07677 10.2069872
## [141,] 47.03756 10.1823459
## [142,] 55.72774  6.6230424
## [143,] 46.10393  2.1520096
## [144,] 52.28891  2.5873398
## [145,] 51.20195  9.9797393
## [146,] 33.86540  8.4492389
## [147,] 75.01369  9.2596649
## [148,] 30.86464  3.9070200
## [149,] 61.80594  2.0862994
## [150,] 34.98795  9.7470157
## [151,] 55.04326  9.6895192
## [152,] 69.94305  3.1540905
## [153,] 49.60574  9.6703537
## [154,] 69.37904  0.3833096
## [155,] 43.55766  9.6265469
## [156,] 59.41025  2.3354507
## [157,] 48.75972  9.5936918
## [158,] 36.49381  6.7763662
## [159,] 45.76169  4.2054539
## [160,] 57.37323  9.4212025
## [161,] 42.74450  9.4896506
## [162,] 58.81886  0.5092542
## [163,] 53.49907  5.6264374
## [164,] 43.41529  0.7556675
## [165,] 53.30741  2.9460081
## [166,] 41.35637  9.2815683
## [167,] 60.95992  4.6106670
## [168,] 47.75490  9.2651407
## [169,] 35.49173  3.3183660
## [170,] 48.66389  9.2021684
## [171,] 52.66948  8.8790932
## [172,] 49.87132  8.1316395
## [173,] 30.27598  9.1063410
## [174,] 55.56894  9.0707480
## [175,] 52.15475  9.0159895
## [176,] 41.61100  4.0849852
## [177,] 55.45395  8.9749206
## [178,] 70.00602  8.8955208
## [179,] 43.94371  8.8763553
## [180,] 42.56927  8.8489760
## [181,] 44.57069  8.8298105
## [182,] 56.94612  8.8270726
## [183,] 40.26120  6.1356916
## [184,] 37.60815  2.6667397
## [185,] 48.36272  7.8907020
## [186,] 70.83835  4.3149710
## [187,] 35.79290  2.0068996
## [188,] 62.62458  7.2144343
```

```
## [189,] 50.64889  8.5560180
## [190,] 54.52853  8.6874384
## [191,] 52.69412  0.5913920
## [192,] 52.72150  8.5204249
## [193,] 56.77363  2.1821268
## [194,] 44.39820  8.5368525
## [195,] 29.55591  8.2110393
## [196,] 57.04195  6.9954003
## [197,] 44.62819  8.3068667
## [198,] 35.79838  8.2822254
## [199,] 40.71843  8.1891359
## [200,] 32.23360  8.0275983
## [201,] 41.09353  8.1124740
## [202,] 61.64166  8.0522396
## [203,] 37.05782  7.9126054
## [204,] 62.58077  5.7222648
## [205,] 48.97875  5.6976235
## [206,] 61.99211  8.0056949
## [207,] 72.77407  7.7757091
## [208,] 61.29668  2.4750849
## [209,] 52.62567  7.9071296
## [210,] 49.76454  7.9208192
## [211,] 52.91589  7.8441573
## [212,] 47.26481  7.7893988
## [213,] 50.20534  5.9933195
## [214,] 69.34892  4.8899354
## [215,] 41.17019  2.9569598
## [216,] 59.16658  6.3957945
## [217,] 36.08039  2.1629613
## [218,] 34.59643  7.7729712
## [219,] 42.71438  7.7373782
## [220,] 63.63213  3.3813383
## [221,] 56.63126  7.4444201
## [222,] 46.26547  1.6345417
## [223,] 61.24466  0.9144672
## [224,] 38.62118  7.1569379
## [225,] 38.77177  7.3677582
## [226,] 56.69697  7.2472895
## [227,] 58.95302  2.7351878
## [228,] 36.92367  7.2171723
## [229,] 62.41649  0.9527982
## [230,] 34.61012  7.2500274
## [231,] 58.33698  3.1896835
## [232,] 50.18344  7.1733655
## [233,] 42.68700  7.1213449
## [234,] 34.38013  6.6942285
## [235,] 33.18366  6.3027051
## [236,] 38.38298  7.0556347
## [237,] 59.76344  5.3307414
## [238,] 66.41386  5.1308729
## [239,] 46.79115  1.9001205
## [240,] 56.08093  6.8448144
## [241,] 41.37553  2.2916439
## [242,] 64.57398  5.8263060
```

```
## [243,] 67.48987  2.5462709
## [244,] 44.83080  4.6270945
## [245,] 45.77264  6.7325594
## [246,] 32.95094  3.9289234
## [247,] 41.22221  2.5736502
## [248,] 55.41836  6.7188698
## [249,] 47.98215  6.7133939
## [250,] 40.79236  6.3711532
## [251,] 56.97623  6.3163947
## [252,] 68.46457  6.6778009
## [253,] 78.44157  6.6641113
## [254,] 39.85872  2.0178513
## [255,] 35.31103  6.5847114
## [256,] 31.44508  6.4888840
## [257,] 58.26580  6.2506845
## [258,] 51.48943  6.4916219
## [259,] 59.97153  6.2534224
## [260,] 74.52634  4.5832877
## [261,] 52.36557  6.4286497
## [262,] 42.78830  5.0651626
## [263,] 34.87570  3.5675172
## [264,] 44.14084  4.2218815
## [265,] 46.38320  2.9679115
## [266,] 56.31092  6.2616362
## [267,] 70.90954  0.4900887
## [268,] 55.39645  3.2608696
## [269,] 45.08542  5.1965831
## [270,] 26.27861  5.5032308
## [271,] 50.47366  6.1274778
## [272,] 38.39941  6.0070091
## [273,] 47.42087  4.5148396
## [274,] 47.98215  3.9617786
## [275,] 38.31727  5.5306100
## [276,] 50.10952  5.8783266
## [277,] 35.08926  5.7633337
## [278,] 32.50465  5.4648998
## [279,] 56.15486  5.7551199
## [280,] 46.15595  5.6976235
## [281,] 65.88545  0.1122550
## [282,] 33.94480  4.5805498
## [283,] 62.86278  5.7359544
## [284,] 48.56533  5.7140510
## [285,] 46.35034  5.6675063
## [286,] 38.85390  5.6866718
## [287,] 58.64911  4.2492608
## [288,] 48.93768  2.9213668
## [289,] 67.57475  2.1876027
## [290,] 65.98675  5.5634651
## [291,] 40.90187  2.4668711
## [292,] 50.24641  4.8871975
## [293,] 57.19801  5.4457343
## [294,] 60.53828  5.3964516
## [295,] 35.35210  2.3956850
## [296,] 31.38210  5.4484722
```

```
## [297,] 55.98784  1.4593144
## [298,] 52.72697  5.3909758
## [299,] 38.09276  5.3718103
## [300,] 58.17271  0.5667506
## [301,] 45.21137  5.3909758
## [302,] 37.79980  5.3115760
## [303,] 60.66148  4.3724674
## [304,] 35.53554  5.1993210
## [305,] 43.06757  5.1609900
## [306,] 56.39306  5.1609900
## [307,] 30.57442  4.9775490
## [308,] 61.18443  4.9885007
## [309,] 58.30139  4.5531705
## [310,] 62.33436  4.4025846
## [311,] 37.99967  4.1287920
## [312,] 33.15354  3.9891578
```

```r
matrix(weight_Rows, , 2, byrow = T)
```

```
##              [,1]        [,2]
##    [1,] 58.76684  1.0951703
##    [2,] 56.44782 14.1523382
##    [3,] 70.07447  2.7707809
##    [4,] 54.74209  5.2705071
##    [5,] 38.10645  4.1205782
##    [6,] 66.26054  6.8530281
##    [7,] 55.53609  6.8475523
##    [8,] 53.05826  6.7517249
##    [9,] 42.50904  6.5710218
##   [10,] 70.56182  0.1396342
##   [11,] 53.71537 10.3000767
##   [12,] 59.13920  0.8323294
##   [13,] 45.69050 11.6279706
##   [14,] 56.22331  3.3320556
##   [15,] 64.64790  9.8127259
##   [16,] 40.44464 11.8962874
##   [17,] 52.18486  2.1054649
##   [18,] 53.93166  0.3614062
##   [19,] 49.56193 13.4185741
##   [20,] 59.95510  3.7126273
##   [21,] 64.19067 10.0125945
##   [22,] 56.27806  1.8426240
##   [23,] 55.96868  0.7228124
##   [24,] 44.52141 11.1679991
##   [25,] 45.07447 13.1310919
##   [26,] 52.02607  3.9535648
##   [27,] 54.44092  0.2108203
##   [28,] 44.94853  1.5031212
##   [29,] 63.87855 13.8922352
##   [30,] 41.38649  0.8788742
##   [31,] 41.55350 10.5108969
##   [32,] 53.99737 14.2153105
##   [33,] 51.28409  8.6792246
##   [34,] 52.06166 12.5999343
##   [35,] 48.62009  7.7948746
```

```
##    [36,] 56.41222 11.7210601
##    [37,] 61.72927  0.6105574
##    [38,] 36.62797  8.8818311
##    [39,] 55.39371  6.2890154
##    [40,] 46.67068 14.0619866
##    [41,] 33.63542  3.6961998
##    [42,] 33.69565 14.0236557
##    [43,] 48.87197 14.3056620
##    [44,] 37.58351  9.3856095
##    [45,] 41.79444 12.8518235
##    [46,] 45.80002  6.1767605
##    [47,] 47.42909  8.8845691
##    [48,] 49.13755 13.9524696
##    [49,] 61.15431  1.9384514
##    [50,] 53.51002  7.1131311
##    [51,] 52.08904 10.5492279
##    [52,] 50.54211  6.5326908
##    [53,] 67.41047  2.7379257
##    [54,] 39.19888  3.9261855
##    [55,] 65.76498  3.7235790
##    [56,] 33.61899  5.0569489
##    [57,] 53.57299  8.9858723
##    [58,] 44.57069 14.0400832
##    [59,] 40.39536  6.0891469
##    [60,] 58.38353 13.7827182
##    [61,] 43.89990 13.4842843
##    [62,] 60.70803  8.4601906
##    [63,] 46.62961  2.3518782
##    [64,] 62.90932  4.0712956
##    [65,] 40.20370 13.2570365
##    [66,] 46.45439 11.4746468
##    [67,] 51.28956  7.5813164
##    [68,] 32.61417 12.8901544
##    [69,] 49.34016  3.2033731
##    [70,] 56.40127 10.0837805
##    [71,] 48.84733 13.3200088
##    [72,] 32.49370 13.2871537
##    [73,] 38.49524 13.3035812
##    [74,] 51.92202  5.0021903
##    [75,] 43.51933  3.2608696
##    [76,] 51.94393  0.1943927
##    [77,] 49.82751  0.8925638
##    [78,] 47.94656  4.6270945
##    [79,] 46.51736 11.9811631
##    [80,] 67.41321  2.4367539
##    [81,] 63.26525  6.9543314
##    [82,] 67.31190  9.7853466
##    [83,] 56.01522 12.9202716
##    [84,] 55.83178 12.8709889
##    [85,] 47.21827  9.1939547
##    [86,] 52.75983  4.5367430
##    [87,] 37.27960  0.5421093
##    [88,] 41.39470  8.4218596
##    [89,] 52.44497  4.7667287
```

```
##  [90,] 33.47662  7.3622823
##  [91,] 45.60837  1.2594458
##  [92,] 76.71120  1.0650531
##  [93,] 36.53488 12.5479137
##  [94,] 53.91797  2.0534443
##  [95,] 46.39141  0.3750958
##  [96,] 48.84733 12.3754244
##  [97,] 71.89519  1.6975140
##  [98,] 28.88512 12.2987625
##  [99,] 48.46950 12.2905487
## [100,] 51.47027  1.5113350
## [101,] 44.95126 11.6361844
## [102,] 56.57102 10.3219801
## [103,] 48.96506  0.3011718
## [104,] 43.01829  8.4492389
## [105,] 34.04063  8.4656664
## [106,] 68.51112  8.8215968
## [107,] 62.52327 11.1105027
## [108,] 50.35867  7.0720622
## [109,] 44.06418  8.6874384
## [110,] 38.91140  5.5963202
## [111,] 41.15376  6.4341255
## [112,] 55.45942  9.4321542
## [113,] 51.23480  2.6037674
## [114,] 52.82828  9.2952579
## [115,] 42.64046 11.2008542
## [116,] 61.07217 10.9927719
## [117,] 49.65776  2.9651736
## [118,] 48.85555  6.2643741
## [119,] 54.25747  1.4100318
## [120,] 35.15223  5.5662030
## [121,] 67.90877  0.5229438
## [122,] 55.43752 10.8586135
## [123,] 45.82193  2.6585259
## [124,] 52.89125 10.6861242
## [125,] 47.18267  6.7572007
## [126,] 53.60037  2.2560508
## [127,] 44.10525 10.7436206
## [128,] 41.95050  2.8392290
## [129,] 63.61570 10.6998138
## [130,] 44.22845  3.8632132
## [131,] 62.00307  2.3272369
## [132,] 40.55416  9.8921257
## [133,] 62.64648  7.6552404
## [134,] 42.33655 10.4534005
## [135,] 42.96901 10.4561384
## [136,] 55.96320 10.3137663
## [137,] 62.86278 10.0180703
## [138,] 51.25123  3.5510897
## [139,] 46.76377  6.4532910
## [140,] 54.07677 10.2069872
## [141,] 47.03756 10.1823459
## [142,] 55.72774  6.6230424
## [143,] 46.10393  2.1520096
```

```
## [144,] 52.28891  2.5873398
## [145,] 51.20195  9.9797393
## [146,] 33.86540  8.4492389
## [147,] 75.01369  9.2596649
## [148,] 30.86464  3.9070200
## [149,] 61.80594  2.0862994
## [150,] 34.98795  9.7470157
## [151,] 55.04326  9.6895192
## [152,] 69.94305  3.1540905
## [153,] 49.60574  9.6703537
## [154,] 69.37904  0.3833096
## [155,] 43.55766  9.6265469
## [156,] 59.41025  2.3354507
## [157,] 48.75972  9.5936918
## [158,] 36.49381  6.7763662
## [159,] 45.76169  4.2054539
## [160,] 57.37323  9.4212025
## [161,] 42.74450  9.4896506
## [162,] 58.81886  0.5092542
## [163,] 53.49907  5.6264374
## [164,] 43.41529  0.7556675
## [165,] 53.30741  2.9460081
## [166,] 41.35637  9.2815683
## [167,] 60.95992  4.6106670
## [168,] 47.75490  9.2651407
## [169,] 35.49173  3.3183660
## [170,] 48.66389  9.2021684
## [171,] 52.66948  8.8790932
## [172,] 49.87132  8.1316395
## [173,] 30.27598  9.1063410
## [174,] 55.56894  9.0707480
## [175,] 52.15475  9.0159895
## [176,] 41.61100  4.0849852
## [177,] 55.45395  8.9749206
## [178,] 70.00602  8.8955208
## [179,] 43.94371  8.8763553
## [180,] 42.56927  8.8489760
## [181,] 44.57069  8.8298105
## [182,] 56.94612  8.8270726
## [183,] 40.26120  6.1356916
## [184,] 37.60815  2.6667397
## [185,] 48.36272  7.8907020
## [186,] 70.83835  4.3149710
## [187,] 35.79290  2.0068996
## [188,] 62.62458  7.2144343
## [189,] 50.64889  8.5560180
## [190,] 54.52853  8.6874384
## [191,] 52.69412  0.5913920
## [192,] 52.72150  8.5204249
## [193,] 56.77363  2.1821268
## [194,] 44.39820  8.5368525
## [195,] 29.55591  8.2110393
## [196,] 57.04195  6.9954003
## [197,] 44.62819  8.3068667
```

```
## [198,] 35.79838 8.2822254
## [199,] 40.71843 8.1891359
## [200,] 32.23360 8.0275983
## [201,] 41.09353 8.1124740
## [202,] 61.64166 8.0522396
## [203,] 37.05782 7.9126054
## [204,] 62.58077 5.7222648
## [205,] 48.97875 5.6976235
## [206,] 61.99211 8.0056949
## [207,] 72.77407 7.7757091
## [208,] 61.29668 2.4750849
## [209,] 52.62567 7.9071296
## [210,] 49.76454 7.9208192
## [211,] 52.91589 7.8441573
## [212,] 47.26481 7.7893988
## [213,] 50.20534 5.9933195
## [214,] 69.34892 4.8899354
## [215,] 41.17019 2.9569598
## [216,] 59.16658 6.3957945
## [217,] 36.08039 2.1629613
## [218,] 34.59643 7.7729712
## [219,] 42.71438 7.7373782
## [220,] 63.63213 3.3813383
## [221,] 56.63126 7.4444201
## [222,] 46.26547 1.6345417
## [223,] 61.24466 0.9144672
## [224,] 38.62118 7.1569379
## [225,] 38.77177 7.3677582
## [226,] 56.69697 7.2472895
## [227,] 58.95302 2.7351878
## [228,] 36.92367 7.2171723
## [229,] 62.41649 0.9527982
## [230,] 34.61012 7.2500274
## [231,] 58.33698 3.1896835
## [232,] 50.18344 7.1733655
## [233,] 42.68700 7.1213449
## [234,] 34.38013 6.6942285
## [235,] 33.18366 6.3027051
## [236,] 38.38298 7.0556347
## [237,] 59.76344 5.3307414
## [238,] 66.41386 5.1308729
## [239,] 46.79115 1.9001205
## [240,] 56.08093 6.8448144
## [241,] 41.37553 2.2916439
## [242,] 64.57398 5.8263060
## [243,] 67.48987 2.5462709
## [244,] 44.83080 4.6270945
## [245,] 45.77264 6.7325594
## [246,] 32.95094 3.9289234
## [247,] 41.22221 2.5736502
## [248,] 55.41836 6.7188698
## [249,] 47.98215 6.7133939
## [250,] 40.79236 6.3711532
## [251,] 56.97623 6.3163947
```

```
## [252,] 68.46457  6.6778009
## [253,] 78.44157  6.6641113
## [254,] 39.85872  2.0178513
## [255,] 35.31103  6.5847114
## [256,] 31.44508  6.4888840
## [257,] 58.26580  6.2506845
## [258,] 51.48943  6.4916219
## [259,] 59.97153  6.2534224
## [260,] 74.52634  4.5832877
## [261,] 52.36557  6.4286497
## [262,] 42.78830  5.0651626
## [263,] 34.87570  3.5675172
## [264,] 44.14084  4.2218815
## [265,] 46.38320  2.9679115
## [266,] 56.31092  6.2616362
## [267,] 70.90954  0.4900887
## [268,] 55.39645  3.2608696
## [269,] 45.08542  5.1965831
## [270,] 26.27861  5.5032308
## [271,] 50.47366  6.1274778
## [272,] 38.39941  6.0070091
## [273,] 47.42087  4.5148396
## [274,] 47.98215  3.9617786
## [275,] 38.31727  5.5306100
## [276,] 50.10952  5.8783266
## [277,] 35.08926  5.7633337
## [278,] 32.50465  5.4648998
## [279,] 56.15486  5.7551199
## [280,] 46.15595  5.6976235
## [281,] 65.88545  0.1122550
## [282,] 33.94480  4.5805498
## [283,] 62.86278  5.7359544
## [284,] 48.56533  5.7140510
## [285,] 46.35034  5.6675063
## [286,] 38.85390  5.6866718
## [287,] 58.64911  4.2492608
## [288,] 48.93768  2.9213668
## [289,] 67.57475  2.1876027
## [290,] 65.98675  5.5634651
## [291,] 40.90187  2.4668711
## [292,] 50.24641  4.8871975
## [293,] 57.19801  5.4457343
## [294,] 60.53828  5.3964516
## [295,] 35.35210  2.3956850
## [296,] 31.38210  5.4484722
## [297,] 55.98784  1.4593144
## [298,] 52.72697  5.3909758
## [299,] 38.09276  5.3718103
## [300,] 58.17271  0.5667506
## [301,] 45.21137  5.3909758
## [302,] 37.79980  5.3115760
## [303,] 60.66148  4.3724674
## [304,] 35.53554  5.1993210
## [305,] 43.06757  5.1609900
```

```
## [306,] 56.39306  5.1609900
## [307,] 30.57442  4.9775490
## [308,] 61.18443  4.9885007
## [309,] 58.30139  4.5531705
## [310,] 62.33436  4.4025846
## [311,] 37.99967  4.1287920
## [312,] 33.15354  3.9891578
```

```r
# TAKE CARE
Columns_com <- cbind(c(1:4), c(1:8))
```

```r
## Create data frames

DF <- data.frame(Age = c(30, 20, 50),
                 Sex = c("male", "female", "female"),
                 Drug = c("yes", "yes", "no"))

DF <- data.frame(Age = runif(30, 1, 80),
                 Sex = sample(1:2, 30, replace = TRUE),
                 Drug = sample(1:3, 30, replace = TRUE))
head(DF)
```

```
##        Age Sex Drug
## 1 45.89339   1    1
## 2 63.77637   1    2
## 3 19.42001   1    3
## 4 72.40499   2    1
## 5 77.09298   2    2
## 6 57.01808   2    3
```

```r
## Create lists
myList <- list(x = c(1:20), sex = c("male", "female"))
myList
```

```
## $x
##  [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
##
## $sex
## [1] "male"   "female"
```