Lab 12

## Setup

setwd("C:/Users/22700/Desktop")  
library(data.table)

## Matrix Manipulation

df.OLSdat <- read.table("OLSqData.RData")  
DT <- data.table(df.OLSdat)   
summary(df.OLSdat)

## y1 const x1 x2   
## Min. :-11.7353 Min. :1 Min. :-1.0813748 Min. :-3.626672   
## 1st Qu.: -0.2118 1st Qu.:1 1st Qu.:-0.2214267 1st Qu.:-0.686488   
## Median : 2.2171 Median :1 Median : 0.0001322 Median : 0.000400   
## Mean : 2.1698 Mean :1 Mean :-0.0038033 Mean :-0.006917   
## 3rd Qu.: 4.5833 3rd Qu.:1 3rd Qu.: 0.2136286 3rd Qu.: 0.670995   
## Max. : 17.5787 Max. :1 Max. : 1.1481061 Max. : 4.024930   
## x3 eps1 eps2   
## Min. :-3.75367 Min. :-5.86698 Min. :-53.6324   
## 1st Qu.:-0.69583 1st Qu.:-0.95432 1st Qu.: -9.4102   
## Median :-0.03440 Median : 0.03125 Median : 0.1831   
## Mean :-0.02018 Mean : 0.01829 Mean : 0.1411   
## 3rd Qu.: 0.66101 3rd Qu.: 0.97468 3rd Qu.: 9.8168   
## Max. : 3.77398 Max. : 5.35372 Max. : 59.9260

## Take a look at the data, which variables do you have?

summary(DT)

## y1 const x1 x2   
## Min. :-11.7353 Min. :1 Min. :-1.0813748 Min. :-3.626672   
## 1st Qu.: -0.2118 1st Qu.:1 1st Qu.:-0.2214267 1st Qu.:-0.686488   
## Median : 2.2171 Median :1 Median : 0.0001322 Median : 0.000400   
## Mean : 2.1698 Mean :1 Mean :-0.0038033 Mean :-0.006917   
## 3rd Qu.: 4.5833 3rd Qu.:1 3rd Qu.: 0.2136286 3rd Qu.: 0.670995   
## Max. : 17.5787 Max. :1 Max. : 1.1481061 Max. : 4.024930   
## x3 eps1 eps2   
## Min. :-3.75367 Min. :-5.86698 Min. :-53.6324   
## 1st Qu.:-0.69583 1st Qu.:-0.95432 1st Qu.: -9.4102   
## Median :-0.03440 Median : 0.03125 Median : 0.1831   
## Mean :-0.02018 Mean : 0.01829 Mean : 0.1411   
## 3rd Qu.: 0.66101 3rd Qu.: 0.97468 3rd Qu.: 9.8168   
## Max. : 3.77398 Max. : 5.35372 Max. : 59.9260

colnames(DT)

## [1] "y1" "const" "x1" "x2" "x3" "eps1" "eps2"

# Now use cbind to build 2 matrices: o Using DTx1, DTx3 to build matrix X and o Using DT$y5 to build matrix y

X <- cbind(c(DT$const), c(DT$x1), c(DT$x2), c(DT$x3))  
X

## [,1] [,2] [,3] [,4]  
## [1,] 1 1.181046e-01 2.452709e-01 0.7095899450  
## [2,] 1 1.876992e-02 -9.973101e-01 -0.4870999636  
## [3,] 1 -7.766124e-01 2.345331e+00 -0.7835348807  
## [4,] 1 -1.432518e-01 5.636138e-01 -0.4252172766  
## [5,] 1 -2.561650e-01 -1.932853e-01 -0.4218498606  
## [6,] 1 8.611202e-01 1.334516e+00 0.8007680883  
## [7,] 1 3.234081e-02 1.153109e+00 0.4606558759  
## [8,] 1 1.208268e-01 -1.609959e-01 0.0386567612  
## [9,] 1 2.228742e-01 -3.230991e-01 1.1639009723  
## [10,] 1 -2.187730e-02 -4.414434e-01 -0.5385977464  
## [11,] 1 -2.724544e-02 4.285233e-01 -0.6354214048  
## [12,] 1 8.617313e-02 -1.096608e+00 -0.3848324095  
## [13,] 1 3.356536e-01 -2.085651e-01 1.1539275685  
## [14,] 1 2.910673e-01 5.625514e-02 1.6399714771  
## [15,] 1 -2.476259e-01 1.424154e+00 -1.3370080250  
## [16,] 1 -6.321131e-02 6.859023e-01 0.1425594222  
## [17,] 1 -4.929733e-02 -1.209721e+00 -0.0444403662  
## [18,] 1 1.346845e-01 2.474723e-01 0.3235471468  
## [19,] 1 -3.729641e-01 -2.318915e-01 -1.1294944873  
## [20,] 1 7.124416e-01 -7.510550e-01 1.8534121968  
## [21,] 1 2.557036e-01 -3.299602e-01 -0.0191783053  
## [22,] 1 -6.470810e-01 -6.378068e-02 0.2218138511  
## [23,] 1 -2.292921e-01 1.493579e+00 -0.4792871634  
## [24,] 1 -9.574649e-02 8.098896e-01 0.3746005278  
## [25,] 1 -1.048298e-01 -1.394562e+00 0.5725224915  
## [26,] 1 -5.978713e-02 -9.566135e-01 -0.8020198023  
## [27,] 1 2.157933e-01 2.395628e+00 0.2260942001  
## [28,] 1 1.609239e-01 -4.446677e-01 1.0306900288  
## [29,] 1 9.994558e-02 1.133136e+00 0.3157773377  
## [30,] 1 5.857682e-01 -1.025922e+00 1.8542202212  
## [31,] 1 -8.678445e-02 -1.408162e+00 0.0662230391  
## [32,] 1 -1.072887e-02 1.198191e-01 1.3129609999  
## [33,] 1 -2.338513e-01 9.259763e-01 -0.1116434404  
## [34,] 1 -2.524425e-01 -4.388688e-01 -1.0526292780  
## [35,] 1 2.064525e-01 -1.376110e+00 1.2817097976  
## [36,] 1 -8.851309e-02 -3.657815e-01 -1.6828544790  
## [37,] 1 -3.630589e-02 -1.625474e+00 -0.3737633755  
## [38,] 1 4.019495e-02 -3.896101e-01 0.2667084192  
## [39,] 1 -1.258538e-01 -2.522738e-01 -1.6564789112  
## [40,] 1 2.295934e-01 6.190655e-02 0.3986550128  
## [41,] 1 4.252864e-02 4.267918e-01 -0.3165019030  
## [42,] 1 1.469193e-01 3.108903e-01 1.1387472014  
## [43,] 1 -7.250454e-01 -3.163195e-01 -1.6999707143  
## [44,] 1 8.468274e-02 -9.583385e-02 0.1455044056  
## [45,] 1 -1.913263e-01 5.414305e-01 -0.1348918812  
## [46,] 1 -4.724665e-01 3.134203e-01 -1.9340629339  
## [47,] 1 1.504154e-01 1.462803e+00 0.7805768787  
## [48,] 1 -3.409470e-01 8.806183e-01 -0.9328005259  
## [49,] 1 4.433888e-01 3.829258e-01 0.0120730335  
## [50,] 1 1.932848e-01 5.596643e-02 0.1861068690  
## [51,] 1 6.657995e-01 6.470070e-01 1.6563440887  
## [52,] 1 3.752192e-02 2.019845e-01 -0.3840521771  
## [53,] 1 -2.389693e-02 -1.231799e+00 -0.6875995050  
## [54,] 1 4.805185e-02 1.381270e-01 0.6871706233  
## [55,] 1 -4.652621e-01 1.087130e+00 -1.1418612948  
## [56,] 1 -1.983860e-01 -5.570184e-01 0.1328951125  
## [57,] 1 3.347090e-01 -6.464873e-01 0.4848663129  
## [58,] 1 -1.619195e-01 1.081781e-01 -0.2707488017  
## [59,] 1 -2.539243e-01 8.399218e-01 0.5060473730  
## [60,] 1 -1.328638e-01 -9.636486e-01 0.4945234701  
## [61,] 1 -1.184923e-01 1.229166e+00 -1.0145267223  
## [62,] 1 -2.838625e-01 6.148552e-01 0.0433474199  
## [63,] 1 -3.605490e-01 -1.497943e-01 -1.4400106324  
## [64,] 1 3.374871e-01 -1.643979e+00 1.4489228062  
## [65,] 1 2.908464e-01 1.713449e+00 1.5689531817  
## [66,] 1 -1.495158e-01 -8.208390e-01 -0.2396521280  
## [67,] 1 6.406908e-01 2.635211e+00 1.6969541212  
## [68,] 1 -6.397072e-01 -6.727249e-01 -1.8993414598  
## [69,] 1 -4.097827e-01 -2.914628e-01 -0.6301585356  
## [70,] 1 -4.319931e-01 2.854882e-01 -0.2954218861  
## [71,] 1 1.511757e-01 1.518156e+00 0.9864089773  
## [72,] 1 1.343870e-01 1.333327e+00 1.0817125461  
## [73,] 1 1.809550e-01 3.936214e-01 0.1573340000  
## [74,] 1 -4.738427e-02 -8.660038e-01 -0.2656698113  
## [75,] 1 3.024025e-02 1.793018e-02 0.2503167270  
## [76,] 1 -2.001590e-01 -1.045937e-01 -0.3738039332  
## [77,] 1 -8.610704e-01 1.435764e+00 -1.6876354561  
## [78,] 1 8.438367e-01 6.130773e-01 1.4247787854  
## [79,] 1 3.041364e-01 1.758227e-01 0.5183312804  
## [80,] 1 2.919969e-01 9.747873e-01 1.1681684257  
## [81,] 1 -6.087202e-02 1.300434e-01 -0.6204239936  
## [82,] 1 2.940615e-01 -1.543394e+00 1.1049869384  
## [83,] 1 -1.391557e-02 8.181207e-01 1.1220530738  
## [84,] 1 -2.584669e-01 -8.696658e-01 -0.8259519232  
## [85,] 1 -3.627536e-01 5.417995e-01 -0.8918063707  
## [86,] 1 3.588450e-01 1.583138e-01 1.0649447713  
## [87,] 1 -1.108931e-01 -1.340899e+00 -1.1309488013  
## [88,] 1 2.529047e-01 5.620532e-01 1.4010620581  
## [89,] 1 -1.843123e-02 -6.906597e-01 0.0987252992  
## [90,] 1 1.476160e-01 9.691375e-01 -1.0951350703  
## [91,] 1 -3.823125e-01 9.164737e-01 -1.6704868955  
## [92,] 1 -2.878174e-01 2.418942e+00 0.2623803729  
## [93,] 1 4.154909e-01 -5.330035e-01 1.2545466212  
## [94,] 1 1.748191e-01 -2.296757e+00 0.6831988929  
## [95,] 1 2.804385e-01 -5.691051e-01 0.2544711765  
## [96,] 1 -2.740806e-01 -6.868563e-01 0.5249022140  
## [97,] 1 2.329955e-01 -5.131335e-01 -0.5190136835  
## [98,] 1 -3.774818e-01 -4.950734e-02 -1.0211681712  
## [99,] 1 2.402490e-01 3.441070e-01 0.0939936209  
## [100,] 1 -3.247556e-01 -1.360291e-01 0.0532370642  
## [101,] 1 -1.981425e-01 -2.608325e-01 -0.3925623540  
## [102,] 1 -4.338040e-01 -3.685886e-01 -1.8376964849  
## [103,] 1 -1.803040e-01 -9.846852e-01 0.2972115315  
## [104,] 1 3.741244e-01 -1.745662e-01 0.2747601812  
## [105,] 1 3.640898e-01 -3.086721e+00 -0.4491505719  
## [106,] 1 4.675092e-01 -8.204404e-01 0.4223466369  
## [107,] 1 -7.622530e-01 -4.641632e-01 -2.3638991185  
## [108,] 1 -2.983166e-01 -5.469095e-01 -0.7832057662  
## [109,] 1 4.790073e-01 -3.989696e-01 0.0012304586  
## [110,] 1 1.881063e-02 1.171716e+00 -0.4056537938  
## [111,] 1 5.969672e-01 2.096050e-01 0.7276823252  
## [112,] 1 -6.318031e-01 -7.262936e-01 0.0190884262  
## [113,] 1 -2.043248e-01 2.302564e-01 -1.3855503086  
## [114,] 1 2.767531e-01 -1.430499e+00 0.7331246930  
## [115,] 1 -2.649550e-01 -1.149466e+00 -1.8642118286  
## [116,] 1 -6.194168e-01 -1.759400e+00 -0.7766035670  
## [117,] 1 -7.110133e-02 9.651929e-01 0.7734181138  
## [118,] 1 4.520001e-01 -1.240191e-01 0.1314245947  
## [119,] 1 -8.305361e-02 1.903549e-01 -0.7420730798  
## [120,] 1 -5.409385e-01 6.465962e-01 -0.6315526867  
## [121,] 1 -1.088727e-01 -1.086204e+00 -0.0080226868  
## [122,] 1 5.512572e-01 1.881993e-01 1.2658850590  
## [123,] 1 -2.111750e-01 6.780571e-01 -0.1967428284  
## [124,] 1 -2.262351e-01 -4.101574e-01 -0.7691305060  
## [125,] 1 2.076852e-01 6.519223e-01 0.2418090196  
## [126,] 1 8.585627e-01 -1.265344e+00 1.9601105584  
## [127,] 1 2.486629e-03 -7.719994e-01 0.4139749486  
## [128,] 1 8.544599e-02 -4.692618e-01 -0.8307613877  
## [129,] 1 3.568037e-01 1.277234e+00 0.8829376707  
## [130,] 1 1.102814e-01 5.421745e-01 1.1998908773  
## [131,] 1 -2.315639e-01 2.799255e-01 -1.7928513602  
## [132,] 1 -5.767645e-02 7.066146e-01 0.5380099635  
## [133,] 1 4.507699e-01 -4.336763e-01 0.8105127549  
## [134,] 1 9.735999e-01 -9.196866e-01 1.1982260854  
## [135,] 1 6.963501e-01 -7.592183e-01 1.2063295003  
## [136,] 1 -8.396628e-02 1.354538e+00 -0.3960542699  
## [137,] 1 2.597789e-01 -1.141403e+00 0.2452692897  
## [138,] 1 -1.868000e-01 -1.451182e-02 -0.0285709955  
## [139,] 1 -3.228190e-01 -1.096300e+00 0.8155513600  
## [140,] 1 -1.230616e-01 -1.396346e+00 0.6278416922  
## [141,] 1 -3.615886e-03 8.174451e-01 0.1755850179  
## [142,] 1 -2.392408e-01 -4.182537e-01 0.5087803240  
## [143,] 1 -3.382570e-01 7.021057e-01 -0.3655110334  
## [144,] 1 -5.273486e-01 -1.068993e+00 -1.4245647370  
## [145,] 1 -2.071633e-01 8.921671e-01 -0.0131892495  
## [146,] 1 1.877221e-01 1.888329e-01 -0.1126177190  
## [147,] 1 2.564657e-02 -6.987436e-01 0.4998902232  
## [148,] 1 -4.138614e-01 -4.837245e-01 -1.5466375366  
## [149,] 1 1.367421e-01 -1.753346e-03 0.8922545757  
## [150,] 1 -1.826143e-01 -8.485034e-01 0.3386378195  
## [151,] 1 6.774421e-02 -3.774271e-01 0.7515791092  
## [152,] 1 3.709130e-01 -7.977070e-01 1.0205958786  
## [153,] 1 -1.026773e+00 3.909425e-01 -2.1130638698  
## [154,] 1 1.327964e-01 2.688750e-01 0.1803726169  
## [155,] 1 -3.330657e-01 -1.521347e+00 -0.5381695972  
## [156,] 1 1.369064e-01 3.852629e-01 -1.0773169204  
## [157,] 1 -1.430514e-01 -2.994281e+00 -1.2861113544  
## [158,] 1 -3.486468e-01 -1.281765e+00 -0.8210743069  
## [159,] 1 -6.954442e-02 1.748277e+00 -0.3332686137  
## [160,] 1 5.616537e-02 7.597139e-01 -0.4526849165  
## [161,] 1 -7.632240e-02 1.467891e+00 -0.3141556265  
## [162,] 1 5.215114e-01 8.142707e-01 2.4307925854  
## [163,] 1 -4.471265e-01 2.519800e+00 -0.8647989929  
## [164,] 1 -4.324527e-01 -3.129963e-01 -1.4338662694  
## [165,] 1 -2.204628e-01 3.315450e-01 -0.8968231762  
## [166,] 1 3.696322e-01 7.914379e-01 1.1818764543  
## [167,] 1 1.125331e-01 5.906168e-01 0.3445810303  
## [168,] 1 -5.059103e-01 2.351323e+00 -1.5401390056  
## [169,] 1 6.337573e-01 9.198803e-01 1.7733682363  
## [170,] 1 3.519984e-01 -4.323638e-01 0.7332904600  
## [171,] 1 3.724769e-01 -6.442363e-02 0.0661411803  
## [172,] 1 6.385578e-01 -4.135915e-01 1.4673816377  
## [173,] 1 -2.769657e-01 1.422729e-01 -0.3920581227  
## [174,] 1 -2.552177e-01 1.060415e+00 0.0167827340  
## [175,] 1 5.248748e-01 2.064575e-01 0.5810800982  
## [176,] 1 4.687054e-02 -2.764233e-01 -0.3702346886  
## [177,] 1 2.215653e-01 3.245518e-02 -0.2049185735  
## [178,] 1 2.400582e-01 2.106395e-01 -0.7070323085  
## [179,] 1 1.811844e-01 -2.401944e-01 -0.5762621921  
## [180,] 1 -1.945278e-01 2.560890e-01 -0.8809345200  
## [181,] 1 -2.136329e-01 9.838172e-01 -1.5813311829  
## [182,] 1 -5.324842e-01 -2.841040e-02 -0.6953057356  
## [183,] 1 -6.907255e-01 1.031112e+00 -1.0986339497  
## [184,] 1 -2.466585e-01 -9.072127e-01 -0.8154091243  
## [185,] 1 3.256213e-01 -1.309890e-01 2.6011265591  
## [186,] 1 1.875396e-01 -1.596938e+00 0.6899048652  
## [187,] 1 5.041376e-01 -7.953678e-01 2.1633882093  
## [188,] 1 -4.901200e-01 -8.416141e-01 -0.2301944873  
## [189,] 1 -3.590359e-01 3.493445e-01 -2.6746895966  
## [190,] 1 4.159933e-02 -2.104238e+00 -0.4905323848  
## [191,] 1 -8.989131e-02 7.884846e-01 -0.5606932479  
## [192,] 1 -1.724655e-01 -8.578293e-01 -0.0071645825  
## [193,] 1 -8.457655e-02 -1.287152e+00 -0.3584100345  
## [194,] 1 -1.753433e-02 -8.053356e-01 -0.4464890578  
## [195,] 1 5.875292e-01 1.438073e+00 0.8890861205  
## [196,] 1 1.185816e-01 4.423058e-01 1.2399214060  
## [197,] 1 7.341304e-01 4.024930e+00 1.5487670328  
## [198,] 1 -2.761355e-01 6.570190e-01 -0.6382478217  
## [199,] 1 2.228144e-01 8.633307e-01 0.0455652716  
## [200,] 1 3.341061e-01 7.659758e-01 1.3887835100  
## [201,] 1 -5.521286e-01 1.705853e+00 -0.8933709079  
## [202,] 1 2.309720e-01 1.916916e-01 1.0523304061  
## [203,] 1 -1.799669e-01 -1.274456e+00 -0.8516743013  
## [204,] 1 -8.063952e-01 -2.578341e+00 -1.9316842182  
## [205,] 1 -6.793168e-01 -1.603077e+00 -1.1604855665  
## [206,] 1 -2.628691e-01 -4.343570e-01 -1.5578762450  
## [207,] 1 2.017331e-01 1.252415e+00 -1.1313709980  
## [208,] 1 6.489182e-03 -5.197487e-01 0.4322586013  
## [209,] 1 3.705003e-01 -1.278168e+00 0.8508590597  
## [210,] 1 4.282147e-01 -1.358683e-01 0.6511885307  
## [211,] 1 -4.457532e-01 8.148476e-01 -1.7197210118  
## [212,] 1 1.478257e-01 -8.365903e-02 -0.6028905247  
## [213,] 1 2.557598e-01 -1.552116e-01 0.5193366097  
## [214,] 1 -1.265983e-01 2.975050e-01 -0.5955126766  
## [215,] 1 -2.186624e-01 2.333473e+00 -0.4555154137  
## [216,] 1 -5.202675e-01 -1.091812e+00 -1.4735099749  
## [217,] 1 2.581676e-01 -9.074500e-02 0.4595674468  
## [218,] 1 3.056708e-01 -7.367798e-01 1.0639971946  
## [219,] 1 2.914237e-01 -1.573078e+00 -0.4719040858  
## [220,] 1 1.605542e-01 -1.891171e-01 0.5752460894  
## [221,] 1 -1.991011e-01 8.972009e-01 -0.5435143309  
## [222,] 1 -1.416227e-01 -1.299248e+00 -0.3070788037  
## [223,] 1 -1.552582e-01 6.707242e-01 -1.4256283694  
## [224,] 1 -4.110131e-01 7.808661e-01 -2.0426720206  
## [225,] 1 2.010665e-01 -9.692894e-01 0.0953149807  
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## [1725,] 1 3.609327e-01 -3.369343e-01 -0.0052390307  
## [1726,] 1 -4.554184e-01 4.174965e-01 -0.1985755762  
## [1727,] 1 2.541322e-02 1.752961e+00 -0.1217981688  
## [1728,] 1 -2.137882e-01 1.125854e+00 -1.1294062616  
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## [1730,] 1 4.432653e-02 -9.337136e-01 1.5626553151  
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## [1732,] 1 4.207141e-01 1.112012e+00 1.5101351918  
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## [1737,] 1 -1.881637e-01 -1.179699e-01 -0.9275163286  
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## [1901,] 1 1.593467e-01 2.696207e-01 0.1871238501  
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## [1910,] 1 4.391999e-02 -3.846891e-01 0.3116192225  
## [1911,] 1 -4.818019e-02 5.501706e-01 -0.8208512390  
## [1912,] 1 9.885807e-02 -1.085217e+00 1.8448859707  
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## [1936,] 1 -8.220341e-02 1.324711e+00 1.1889890306  
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## [1952,] 1 1.176766e-01 4.841011e-01 1.2850295757  
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## [1955,] 1 -2.641574e-01 -4.412390e-01 -1.5499883318  
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## [1960,] 1 -2.851546e-01 1.677212e-01 -0.8166984615  
## [1961,] 1 4.628840e-01 -4.388083e-01 1.1660096989  
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## [1963,] 1 1.973286e-01 -1.025306e+00 0.9492038218  
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## [7371,] 1 -5.022411e-02 -2.647769e-02 -0.9885379114  
## [7372,] 1 5.048770e-01 -8.958906e-01 -0.0309660782  
## [7373,] 1 1.098800e-01 8.590485e-01 0.1882789488  
## [7374,] 1 3.141225e-01 7.252956e-01 -0.2508749399  
## [7375,] 1 -7.097365e-01 1.951782e-01 -2.4352065128  
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## [7378,] 1 3.753956e-01 -4.544394e-01 0.9721179433  
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## [7382,] 1 -1.263842e-01 2.806971e-01 -0.9660144027  
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## [7387,] 1 -5.848369e-01 1.270392e+00 -0.4594001073  
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## [7390,] 1 -3.914156e-01 1.917660e+00 -1.7466553344  
## [7391,] 1 -2.214766e-01 1.055557e+00 0.1484322346  
## [7392,] 1 -1.569474e-01 1.416936e+00 -0.0288940228  
## [7393,] 1 -9.853589e-02 5.157556e-02 -0.7564756289  
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## [7503,] 1 -3.372163e-01 3.259231e-01 0.7737548363  
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## [7508,] 1 2.439665e-01 2.253080e-01 0.7461454768  
## [7509,] 1 7.579295e-02 -4.759338e-01 -0.1867798271  
## [7510,] 1 -2.261940e-01 5.058764e-02 -1.1302234614  
## [7511,] 1 4.896880e-01 -2.922275e-01 0.8888077863  
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## [7513,] 1 -1.233610e-01 -6.161353e-01 -0.3019424857  
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## [7542,] 1 3.435062e-01 -1.251608e-01 -0.8156869979  
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## [7556,] 1 1.251115e-01 5.346346e-01 0.7214178400  
## [7557,] 1 1.311086e-02 -5.039222e-01 0.4575215967  
## [7558,] 1 -2.285805e-01 3.127050e-02 0.6490838780  
## [7559,] 1 4.563972e-02 9.878372e-01 -0.4178740915  
## [7560,] 1 -1.905735e-01 1.516812e-01 -1.8135918421  
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## [7562,] 1 6.503022e-01 1.579766e+00 1.3544789179  
## [7563,] 1 -2.383830e-01 3.797319e-01 0.0297474782  
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## [7565,] 1 -3.034234e-01 1.261871e+00 -0.6942262517  
## [7566,] 1 -8.843263e-01 -3.209674e-01 -1.6395502474  
## [7567,] 1 2.452316e-01 4.094908e-01 -0.5902800743  
## [7568,] 1 -1.945100e-01 8.914146e-01 0.3302403158  
## [7569,] 1 7.843560e-02 4.756963e-01 -0.1262787230  
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## [7571,] 1 -4.243062e-01 1.411809e+00 -0.9303319877  
## [7572,] 1 1.581377e-01 1.955503e+00 0.3258370604  
## [7573,] 1 -5.461241e-02 -6.450185e-01 0.5276307509  
## [7574,] 1 2.284889e-01 -1.935650e-01 -0.0985663901  
## [7575,] 1 -2.274314e-01 -1.006030e+00 -0.5488860304  
## [7576,] 1 -4.232730e-01 -6.234192e-01 -1.0605817971  
## [7577,] 1 1.756435e-01 -7.358525e-01 0.6010512863  
## [7578,] 1 -6.317943e-02 2.878079e-01 1.4398221179  
## [7579,] 1 -2.632765e-01 4.146396e-01 -0.0300938963  
## [7580,] 1 -2.992053e-01 -1.591529e+00 -1.1873895779  
## [7581,] 1 -1.706879e-01 -2.298147e-01 0.3290581700  
## [7582,] 1 -2.509538e-01 -5.114667e-01 -1.0171044701  
## [7583,] 1 -5.401241e-01 -1.164647e-01 -1.3578709802  
## [7584,] 1 -1.495465e-01 -2.818097e-01 -0.5571482701

y <- cbind(c(DT$y1))  
y

## [,1]  
## [1,] 1.427413356  
## [2,] 3.028771869  
## [3,] 11.460755912  
## [4,] 0.176731232  
## [5,] -2.262399302  
## [6,] 4.603809249  
## [7,] -0.996337835  
## [8,] -2.775592328  
## [9,] -3.331840908  
## [10,] 1.701976007  
## [11,] 2.517117126  
## [12,] 1.861782565  
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## [14,] 7.123240431  
## [15,] 2.666682680  
## [16,] 2.698508742  
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## [18,] 4.305208419  
## [19,] 4.159212963  
## [20,] 6.423581520  
## [21,] -0.175694012  
## [22,] 3.874342656  
## [23,] 4.515740404  
## [24,] 1.727610877  
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## [32,] 5.538793366  
## [33,] 3.494964925  
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## [49,] 6.042262135  
## [50,] 0.095510414  
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## [59,] 3.558799876  
## [60,] 3.241902328  
## [61,] 0.716495573  
## [62,] -0.370828890  
## [63,] -3.915668598  
## [64,] -1.416224690  
## [65,] 1.462176991  
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## [67,] 9.586550304  
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## [69,] -2.766729692  
## [70,] 0.802568405  
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## [7135,] 2.332762546  
## [7136,] 1.449352278  
## [7137,] -0.340676548  
## [7138,] -0.192705029  
## [7139,] 5.307567533  
## [7140,] 2.398697962  
## [7141,] 6.445724750  
## [7142,] 2.170240558  
## [7143,] -1.042616638  
## [7144,] 4.280608228  
## [7145,] 0.331681705  
## [7146,] -0.390173898  
## [7147,] 2.480094130  
## [7148,] 1.244795263  
## [7149,] 6.463298828  
## [7150,] 0.834513776  
## [7151,] -2.705537497  
## [7152,] 4.971370169  
## [7153,] -2.757604848  
## [7154,] 5.478351397  
## [7155,] -6.857862341  
## [7156,] 6.234874188  
## [7157,] -2.151664834  
## [7158,] 5.569308262  
## [7159,] 0.798605024  
## [7160,] -0.014575879  
## [7161,] 4.149337914  
## [7162,] -0.638815829  
## [7163,] 11.056129192  
## [7164,] 4.740330723  
## [7165,] 4.127545027  
## [7166,] 2.868836075  
## [7167,] 2.266742970  
## [7168,] 4.676494940  
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## [7172,] 6.497713631  
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## [7174,] 5.982037424  
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## [7176,] 4.321755617  
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## [7179,] 1.072167545  
## [7180,] -4.330626266  
## [7181,] -2.607234053  
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## [7183,] -1.083869317  
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## [7186,] -2.755521521  
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## [7261,] -3.247186445  
## [7262,] -5.567578751  
## [7263,] 4.557753660  
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## [7267,] -3.870041784  
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## [7270,] 0.240531601  
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## [7272,] 3.714163166  
## [7273,] 7.733293632  
## [7274,] 6.851181017  
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## [7279,] -1.704044831  
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## [7287,] 8.248517500  
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## [7390,] 1.571181723  
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## [7406,] 8.335082394  
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## [7411,] -0.449278737  
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## [7414,] 7.640658309  
## [7415,] 2.190579967  
## [7416,] -2.601209607  
## [7417,] 2.131059157  
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## [7419,] 1.712280202  
## [7420,] 3.525446540  
## [7421,] 2.517931027  
## [7422,] 4.220082409  
## [7423,] 2.875881135  
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## [7425,] -1.582522256  
## [7426,] 6.916171575  
## [7427,] 10.809194798  
## [7428,] 4.602207501  
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## [7494,] 0.244469285  
## [7495,] 7.254592428  
## [7496,] -1.827841740  
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## [7501,] 6.256786037  
## [7502,] -1.917134519  
## [7503,] -1.332624443  
## [7504,] -2.004044987  
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## [7506,] 2.227741095  
## [7507,] 6.071352335  
## [7508,] 3.191207974  
## [7509,] -3.347476125  
## [7510,] -2.531848132  
## [7511,] -0.346363638  
## [7512,] 6.041993477  
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## [7514,] 2.537355217  
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## [7517,] 6.118614565  
## [7518,] 1.038745794  
## [7519,] -1.093360398  
## [7520,] 1.237087468  
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## [7522,] 5.315174402  
## [7523,] 7.112133969  
## [7524,] 0.269470049  
## [7525,] -1.201742161  
## [7526,] -0.998701794  
## [7527,] 1.211552456  
## [7528,] 3.715891465  
## [7529,] 1.618888461  
## [7530,] -1.744277306  
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## [7533,] 4.055953876  
## [7534,] 1.108294053  
## [7535,] 0.967766726  
## [7536,] 6.637401842  
## [7537,] 2.742059269  
## [7538,] 3.952385389  
## [7539,] 10.027539409  
## [7540,] 1.711442620  
## [7541,] 3.567941519  
## [7542,] -0.379965469  
## [7543,] 1.770662245  
## [7544,] 2.119942591  
## [7545,] 4.196977849  
## [7546,] 1.344641077  
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## [7548,] 4.797623772  
## [7549,] 2.196871360  
## [7550,] 3.894799532  
## [7551,] -0.259105464  
## [7552,] 2.624532955  
## [7553,] 0.084210289  
## [7554,] 7.190022357  
## [7555,] -1.084674599  
## [7556,] 1.157851532  
## [7557,] 2.010078288  
## [7558,] 3.832859792  
## [7559,] 4.592718100  
## [7560,] -0.823392839  
## [7561,] -0.738049513  
## [7562,] 4.324721910  
## [7563,] 0.790196818  
## [7564,] 1.091901281  
## [7565,] 6.045047923  
## [7566,] 0.868642341  
## [7567,] 4.194780894  
## [7568,] 3.053854404  
## [7569,] 7.474769505  
## [7570,] 3.825966391  
## [7571,] 3.160821689  
## [7572,] 8.284210452  
## [7573,] -0.855891648  
## [7574,] 2.655758243  
## [7575,] -4.870659298  
## [7576,] 0.915281695  
## [7577,] 0.916407759  
## [7578,] 6.302290288  
## [7579,] 2.635079141  
## [7580,] 1.538838262  
## [7581,] 4.068186883  
## [7582,] -1.842197183  
## [7583,] 1.082342692  
## [7584,] -2.636952694

# Now compute X’ (transpose of X)

Xt <- t(X)  
Xt

## [,1] [,2] [,3] [,4] [,5] [,6]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.0000000 1.0000000  
## [2,] 0.1181046 0.01876992 -0.7766124 -0.1432518 -0.2561650 0.8611202  
## [3,] 0.2452709 -0.99731012 2.3453315 0.5636138 -0.1932853 1.3345157  
## [4,] 0.7095899 -0.48709996 -0.7835349 -0.4252173 -0.4218499 0.8007681  
## [,7] [,8] [,9] [,10] [,11] [,12]  
## [1,] 1.00000000 1.00000000 1.0000000 1.0000000 1.00000000 1.00000000  
## [2,] 0.03234081 0.12082677 0.2228742 -0.0218773 -0.02724544 0.08617313  
## [3,] 1.15310907 -0.16099589 -0.3230991 -0.4414434 0.42852327 -1.09660819  
## [4,] 0.46065588 0.03865676 1.1639010 -0.5385977 -0.63542140 -0.38483241  
## [,13] [,14] [,15] [,16] [,17] [,18]  
## [1,] 1.0000000 1.00000000 1.0000000 1.00000000 1.00000000 1.0000000  
## [2,] 0.3356536 0.29106729 -0.2476259 -0.06321131 -0.04929733 0.1346845  
## [3,] -0.2085651 0.05625514 1.4241535 0.68590234 -1.20972079 0.2474723  
## [4,] 1.1539276 1.63997148 -1.3370080 0.14255942 -0.04444037 0.3235471  
## [,19] [,20] [,21] [,22] [,23] [,24]  
## [1,] 1.0000000 1.0000000 1.00000000 1.00000000 1.0000000 1.00000000  
## [2,] -0.3729641 0.7124416 0.25570364 -0.64708097 -0.2292921 -0.09574649  
## [3,] -0.2318915 -0.7510550 -0.32996019 -0.06378068 1.4935792 0.80988964  
## [4,] -1.1294945 1.8534122 -0.01917831 0.22181385 -0.4792872 0.37460053  
## [,25] [,26] [,27] [,28] [,29] [,30]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.1048298 -0.05978713 0.2157933 0.1609239 0.09994558 0.5857682  
## [3,] -1.3945619 -0.95661352 2.3956282 -0.4446677 1.13313615 -1.0259225  
## [4,] 0.5725225 -0.80201980 0.2260942 1.0306900 0.31577734 1.8542202  
## [,31] [,32] [,33] [,34] [,35] [,36]  
## [1,] 1.00000000 1.00000000 1.0000000 1.0000000 1.0000000 1.00000000  
## [2,] -0.08678445 -0.01072887 -0.2338513 -0.2524425 0.2064525 -0.08851309  
## [3,] -1.40816180 0.11981905 0.9259763 -0.4388688 -1.3761101 -0.36578151  
## [4,] 0.06622304 1.31296100 -0.1116434 -1.0526293 1.2817098 -1.68285448  
## [,37] [,38] [,39] [,40] [,41] [,42]  
## [1,] 1.00000000 1.00000000 1.0000000 1.00000000 1.00000000 1.0000000  
## [2,] -0.03630589 0.04019495 -0.1258538 0.22959337 0.04252864 0.1469193  
## [3,] -1.62547417 -0.38961012 -0.2522738 0.06190655 0.42679184 0.3108903  
## [4,] -0.37376338 0.26670842 -1.6564789 0.39865501 -0.31650190 1.1387472  
## [,43] [,44] [,45] [,46] [,47] [,48]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.0000000 1.0000000  
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## [3,] -0.8372384 0.315657209 -0.65318296 1.5302864 -0.1729199 1.4561314  
## [4,] -0.9532480 0.054123942 -0.59032272 -0.9521721 -1.4485537 0.2075702  
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## [3,] 0.2404991 -1.6183010 -0.11227051 -0.40501607 0.05153614 -1.962173  
## [4,] 1.4436085 -0.2297009 -0.71078728 0.05052561 -0.28348920 -0.519841  
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## [,7411] [,7412] [,7413] [,7414] [,7415] [,7416]  
## [1,] 1.00000000 1.0000000 1.000000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.02888738 -0.2587856 -0.004505596 0.4739746 0.07521267 -0.1219874  
## [3,] 0.70805784 -2.1039966 -1.475198366 1.5645962 -0.20904071 -0.6802555  
## [4,] -0.68108991 -1.3305785 0.461865038 1.7239039 -0.40668228 0.1648333  
## [,7417] [,7418] [,7419] [,7420] [,7421] [,7422]  
## [1,] 1.00000000 1.0000000 1.0000000 1.00000000 1.00000000 1.0000000  
## [2,] 0.08054505 0.3165476 0.3674871 0.08318729 -0.63795897 -0.3478176  
## [3,] 1.19168427 -2.9415895 0.7393400 0.61139274 -0.09887918 0.4593435  
## [4,] -0.24181025 0.4119246 1.4690663 1.01103365 -1.61755956 0.5016160  
## [,7423] [,7424] [,7425] [,7426] [,7427] [,7428]  
## [1,] 1.0000000 1.00000000 1.0000000 1.00000000 1.0000000 1.0000000  
## [2,] -0.3809370 0.01570115 -0.1928969 0.08936547 0.5436501 0.1732595  
## [3,] 1.0863345 -0.63290884 -1.8623558 0.75691192 1.5900549 0.9882939  
## [4,] -0.8436306 -0.09248745 -0.4783655 0.61322320 1.6298900 0.2679938  
## [,7429] [,7430] [,7431] [,7432] [,7433] [,7434]  
## [1,] 1.00000000 1.0000000 1.00000000 1.00000000 1.00000000 1.0000000  
## [2,] 0.09900739 -0.3066827 -0.09583599 0.05775356 -0.05121722 -0.1055973  
## [3,] -2.45151274 0.4098908 -1.45423004 1.19632858 1.59470914 -1.0407571  
## [4,] 2.17372716 -0.6734861 -1.15532831 -0.50927529 -0.10641795 0.5612440  
## [,7435] [,7436] [,7437] [,7438] [,7439] [,7440]  
## [1,] 1.0000000 1.0000000 1.00000000 1.00000000 1.0000000 1.0000000  
## [2,] -0.2375035 0.1325344 0.04789582 0.03131614 -0.2472008 0.3534610  
## [3,] -1.4631623 -2.0863448 1.90552285 -0.55664277 0.7206774 -1.9177980  
## [4,] -0.6345267 0.4842518 0.97721426 -0.04572774 -0.4887188 -0.2473257  
## [,7441] [,7442] [,7443] [,7444] [,7445] [,7446]  
## [1,] 1.0000000 1.00000000 1.00000000 1.00000000 1.0000000 1.0000000  
## [2,] -0.4979079 0.22537890 0.64962840 -0.02057465 0.1051489 0.2877892  
## [3,] -0.4376846 0.03255247 0.08423985 0.27515299 -0.8567674 0.6771172  
## [4,] 0.2839583 -0.41186469 0.44314795 -0.24314506 0.5763672 0.8436670  
## [,7447] [,7448] [,7449] [,7450] [,7451] [,7452]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000 1.00000000  
## [2,] 0.4580939 -0.1603276 -0.2538366 0.4672018 -0.02221654 0.02538462  
## [3,] -0.3162808 -0.4903466 1.2794685 1.6771659 0.24940889 0.09531318  
## [4,] 0.8063742 -0.5986324 -0.6134960 0.9988743 -1.11382375 1.34044628  
## [,7453] [,7454] [,7455] [,7456] [,7457] [,7458]  
## [1,] 1.000000 1.000000000 1.0000000 1.0000000 1.0000000 1.00000000  
## [2,] -0.507351 -0.000116738 0.1475794 -0.2338795 -0.3109993 -0.07733521  
## [3,] 1.779862 0.659755701 -1.3444901 0.9234272 1.6423430 -0.57772312  
## [4,] -2.126893 -0.274685232 1.1677821 -0.2775777 -1.2130116 -0.93326443  
## [,7459] [,7460] [,7461] [,7462] [,7463] [,7464]  
## [1,] 1.00000000 1.0000000 1.0000000 1.00000000 1.00000000 1.0000000  
## [2,] -0.04532567 0.1518741 0.1690302 0.34055221 -0.06631718 -0.6750415  
## [3,] 0.74619554 -0.8343784 0.7181739 0.04510868 -0.24727674 1.0119222  
## [4,] -0.36084619 -0.3726074 -0.4019711 2.05953224 0.72622709 -1.8135207  
## [,7465] [,7466] [,7467] [,7468] [,7469] [,7470]  
## [1,] 1.00000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000  
## [2,] 0.05551193 0.2510797 0.2171924 -0.5708314 0.2374601 0.3680376  
## [3,] 0.51307526 -0.4331519 -0.3141909 -1.1103310 -0.2552117 0.0292757  
## [4,] -0.09222456 0.7083370 0.4721816 -1.7100124 1.5594293 1.4547213  
## [,7471] [,7472] [,7473] [,7474] [,7475] [,7476]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.0000000 1.00000000  
## [2,] 0.1004756 0.07284417 0.7473238 0.0781337 -0.8223287 0.07329351  
## [3,] 0.7960290 0.65432826 -0.2276701 0.6273870 -1.5795209 -0.72706873  
## [4,] 0.6308239 -0.40295532 1.7285650 0.2096557 -2.7847724 0.77145171  
## [,7477] [,7478] [,7479] [,7480] [,7481] [,7482]  
## [1,] 1.0000000000 1.00000000 1.00000000 1.0000000 1.000000 1.00000000  
## [2,] 0.7093984382 0.46214597 -0.06919980 0.4433354 0.148418 -0.42084244  
## [3,] 0.0004633687 0.09936674 -0.08882267 -0.2402376 1.523476 0.74687400  
## [4,] 1.0369842758 0.13180984 -0.01975774 0.5204066 2.171428 0.02364025  
## [,7483] [,7484] [,7485] [,7486] [,7487] [,7488]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.3140256 0.07349034 0.2758291 0.2382262 0.37537780 0.2616639  
## [3,] -0.8838018 0.64603093 0.8243034 -2.9446710 -0.09682828 -0.1381505  
## [4,] -0.5191444 -0.03543998 0.1505020 0.2295153 2.03520439 -0.5764335  
## [,7489] [,7490] [,7491] [,7492] [,7493] [,7494]  
## [1,] 1.0000000 1.00000000 1.000000000 1.00000000 1.0000000 1.0000000  
## [2,] -0.7270061 -0.64281452 0.483013572 0.26066528 0.1270889 -0.1182916  
## [3,] 1.7689366 0.07197616 0.002682207 0.55869120 0.3355884 -1.0569448  
## [4,] -0.8678464 -1.86017399 0.717780760 -0.01756636 0.3563546 -2.0063246  
## [,7495] [,7496] [,7497] [,7498] [,7499] [,7500] [,7501]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.2218435 -0.5492979 0.1164589 -0.2368082 0.2418406 -0.02440261 0.3142976  
## [3,] 1.0111784 -0.4059339 1.3684504 -1.3810117 0.3795432 0.39268972 1.0263216  
## [4,] -1.9916614 -2.0312034 0.8162022 -0.5259288 0.8231306 -1.40668944 1.6751129  
## [,7502] [,7503] [,7504] [,7505] [,7506] [,7507]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.2584864 -0.3372163 -0.2690346 -0.5243702 0.09284503 0.1225345  
## [3,] -0.9584182 0.3259231 0.1623476 -1.4150405 -0.34145440 0.2228447  
## [4,] -1.1292326 0.7737548 -0.9370096 -2.2172221 0.20060814 0.5464994  
## [,7508] [,7509] [,7510] [,7511] [,7512] [,7513]  
## [1,] 1.0000000 1.00000000 1.00000000 1.0000000 1.0000000 1.0000000  
## [2,] 0.2439665 0.07579295 -0.22619397 0.4896880 0.2507521 -0.1233610  
## [3,] 0.2253080 -0.47593384 0.05058764 -0.2922275 -0.4318468 -0.6161353  
## [4,] 0.7461455 -0.18677983 -1.13022346 0.8888078 0.7051515 -0.3019425  
## [,7514] [,7515] [,7516] [,7517] [,7518] [,7519]  
## [1,] 1.000000000 1.0000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] -0.004668047 0.2617962 -0.2303922 0.4641096 -0.02854319 -0.2132900  
## [3,] 1.513429458 -1.3383023 2.1777339 -0.8930173 -1.14412365 -0.5026354  
## [4,] 0.565665548 -0.5089848 0.4316432 2.3227727 -0.10183709 -0.3628198  
## [,7520] [,7521] [,7522] [,7523] [,7524] [,7525]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000  
## [2,] -0.2700682 0.3185763 0.2228462 -0.5834958 0.6275696 0.03059209  
## [3,] -0.6709136 1.0381935 0.9957484 0.1236247 -2.3619484 0.08927952  
## [4,] -0.6115983 0.3207374 -0.3578961 -1.5619842 1.5429986 -0.08897117  
## [,7526] [,7527] [,7528] [,7529] [,7530] [,7531]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.0000000 1.000000  
## [2,] 0.3614433 0.04388929 0.2527742 0.5927032 0.1066649 -0.425671  
## [3,] -0.4751925 2.16448458 -0.8697579 -0.8129381 0.4144297 -1.209373  
## [4,] 0.7841407 -0.15620463 -0.3784927 1.1365264 -0.3155259 -1.158845  
## [,7532] [,7533] [,7534] [,7535] [,7536] [,7537]  
## [1,] 1.0000000 1.0000000 1.00000000 1.0000000 1.00000000 1.000000000  
## [2,] -0.2721970 0.4027394 0.02828426 -0.6630119 -0.06976045 0.076168255  
## [3,] 0.8857755 0.5772907 -0.88752859 -0.8549007 0.76845643 -0.001934687  
## [4,] 0.4578211 0.9809424 0.09634480 -1.8934367 -0.20512482 -1.832932457  
## [,7538] [,7539] [,7540] [,7541] [,7542] [,7543]  
## [1,] 1.0000000 1.000000 1.0000000 1.0000000 1.0000000 1.0000000  
## [2,] 0.3287065 0.753844 0.2065323 -0.3879299 0.3435062 -0.4160629  
## [3,] -0.4766404 0.665273 -1.6413061 -0.8365436 -0.1251608 -0.6485176  
## [4,] 0.7867480 1.953848 0.2665349 -0.2380374 -0.8156870 -0.8426229  
## [,7544] [,7545] [,7546] [,7547] [,7548] [,7549]  
## [1,] 1.00000000 1.00000000 1.0000000 1.0000000 1.00000000 1.00000000  
## [2,] 0.04424807 -0.01460483 -0.4328379 -0.7547898 0.05021611 -0.45399012  
## [3,] 0.38342865 1.59032385 -0.5577357 1.1412222 0.52150580 -1.01276153  
## [4,] -0.63827700 -0.77247161 -0.4657252 -2.0082210 -0.26215663 -0.01774138  
## [,7550] [,7551] [,7552] [,7553] [,7554] [,7555]  
## [1,] 1.0000000 1.0000000 1.00000000 1.0000000 1.0000000 1.00000000  
## [2,] -0.1396832 -0.6640159 0.05877599 0.3037073 -0.3311306 -0.00435385  
## [3,] 0.4238579 -1.4860360 1.34991874 0.5910672 0.9412466 1.73238916  
## [4,] -1.3682954 -2.0891436 -0.28087752 0.8666567 -1.0891903 0.02903989  
## [,7556] [,7557] [,7558] [,7559] [,7560] [,7561]  
## [1,] 1.0000000 1.00000000 1.0000000 1.00000000 1.0000000 1.0000000  
## [2,] 0.1251115 0.01311086 -0.2285805 0.04563972 -0.1905735 0.4392103  
## [3,] 0.5346346 -0.50392216 0.0312705 0.98783717 0.1516812 0.3902344  
## [4,] 0.7214178 0.45752160 0.6490839 -0.41787409 -1.8135918 -0.5963353  
## [,7562] [,7563] [,7564] [,7565] [,7566] [,7567]  
## [1,] 1.0000000 1.00000000 1.0000000 1.0000000 1.0000000 1.0000000  
## [2,] 0.6503022 -0.23838304 -0.4855174 -0.3034234 -0.8843263 0.2452316  
## [3,] 1.5797660 0.37973190 0.9434563 1.2618706 -0.3209674 0.4094908  
## [4,] 1.3544789 0.02974748 -1.2518715 -0.6942263 -1.6395502 -0.5902801  
## [,7568] [,7569] [,7570] [,7571] [,7572] [,7573]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000  
## [2,] -0.1945100 0.0784356 0.1436910 -0.4243062 0.1581377 -0.05461241  
## [3,] 0.8914146 0.4756963 0.4811090 1.4118091 1.9555033 -0.64501849  
## [4,] 0.3302403 -0.1262787 0.4492172 -0.9303320 0.3258371 0.52763075  
## [,7574] [,7575] [,7576] [,7577] [,7578] [,7579]  
## [1,] 1.00000000 1.0000000 1.0000000 1.0000000 1.00000000 1.0000000  
## [2,] 0.22848888 -0.2274314 -0.4232730 0.1756435 -0.06317943 -0.2632765  
## [3,] -0.19356500 -1.0060302 -0.6234192 -0.7358525 0.28780790 0.4146396  
## [4,] -0.09856639 -0.5488860 -1.0605818 0.6010513 1.43982212 -0.0300939  
## [,7580] [,7581] [,7582] [,7583] [,7584]  
## [1,] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000  
## [2,] -0.2992053 -0.1706879 -0.2509538 -0.5401241 -0.1495465  
## [3,] -1.5915285 -0.2298147 -0.5114667 -0.1164647 -0.2818097  
## [4,] -1.1873896 0.3290582 -1.0171045 -1.3578710 -0.5571483

# Next compute X’X . Report your result.

XtX <- Xt%\*%X  
XtX

## [,1] [,2] [,3] [,4]  
## [1,] 7584.00000 -28.84399 -52.45766 -153.04722  
## [2,] -28.84399 786.14496 10.09589 1794.58853  
## [3,] -52.45766 10.09589 7824.05912 79.67348  
## [4,] -153.04722 1794.58853 79.67348 7616.46991

# Next compute the inverse of X’X. Report it.

invXtX <- (XtX)^-1  
invXtX

## [,1] [,2] [,3] [,4]  
## [1,] 0.0001318565 -0.0346692644 -0.0190629938 -0.0065339312  
## [2,] -0.0346692644 0.0012720300 0.0990502198 0.0005572308  
## [3,] -0.0190629938 0.0990502198 0.0001278109 0.0125512285  
## [4,] -0.0065339312 0.0005572308 0.0125512285 0.0001312944

# Next compute X’y. Report it.

Xty <- Xt%\*%y  
Xty

## [,1]  
## [1,] 16455.648  
## [2,] 1174.928  
## [3,] 10158.341  
## [4,] 4778.788

# Lastly multiply the inverse of X’X with X’y. Report your result. What is this?

OLS <- invXtX%\*%Xty  
OLS

## [,1]  
## [1,] -263.43677  
## [2,] 439.83816  
## [3,] -136.03906  
## [4,] 21.26173

# Finally run a few comparisons: Regress y1 on x1, x2, and x3 in a linear model.

OLS1 <- lm(y1 ~ x1 + x2 + x3, data=DT)  
summary(OLS1)

##   
## Call:  
## lm(formula = y1 ~ x1 + x2 + x3, data = DT)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -12.1144 -2.1371 0.0641 2.1496 10.7707   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.19198 0.03656 59.954 <2e-16 \*\*\*  
## x1 0.12240 0.16701 0.733 0.464   
## x2 1.30648 0.03599 36.301 <2e-16 \*\*\*  
## x3 0.62897 0.05367 11.720 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 3.183 on 7580 degrees of freedom  
## Multiple R-squared: 0.1794, Adjusted R-squared: 0.179   
## F-statistic: 552.2 on 3 and 7580 DF, p-value: < 2.2e-16

# Divide XtX by n (number of observations) and compare it to cov(DT), comment.

XtX/7584

## [,1] [,2] [,3] [,4]  
## [1,] 1.000000000 -0.003803269 -0.006916885 -0.02018028  
## [2,] -0.003803269 0.103658354 0.001331209 0.23662823  
## [3,] -0.006916885 0.001331209 1.031653365 0.01050547  
## [4,] -0.020180277 0.236628234 0.010505469 1.00428137

covDT <- cov(DT)  
covDT

## y1 const x1 x2 x3 eps1  
## y1 12.34255205 0 0.1631956969 1.354630521 0.67399025 -0.0345977698  
## const 0.00000000 0 0.0000000000 0.000000000 0.00000000 0.0000000000  
## x1 0.16319570 0 0.1036575573 0.001305074 0.23658268 -0.0009250523  
## x2 1.35463052 0 0.0013050743 1.031741563 0.01036725 0.0044524846  
## x3 0.67399025 0 0.2365826780 0.010367251 1.00400651 -0.0149200056  
## eps1 -0.03459777 0 -0.0009250523 0.004452485 -0.01492001 2.0521287710  
## eps2 0.35828556 0 0.0845584145 -0.105670109 0.22875506 -0.1687865058  
## eps2  
## y1 0.35828556  
## const 0.00000000  
## x1 0.08455841  
## x2 -0.10567011  
## x3 0.22875506  
## eps1 -0.16878651  
## eps2 199.70843926

## IV Estimation

library(stargazer)

##   
## Please cite as:

## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.

## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

iv <- read.table("IV\_Data.RData")  
iv<- data.table(iv)  
olsexo <- lm(y4 ~ x1 + x2, data=iv)  
stargazer(olsexo, type = "text")

##   
## =================================================  
## Dependent variable:   
## -----------------------------  
## y4   
## -------------------------------------------------  
## x1 2.202\*\*\*   
## (0.008)   
##   
## x2 1.738\*\*\*   
## (0.008)   
##   
## Constant 0.492\*\*\*   
## (0.008)   
##   
## -------------------------------------------------  
## Observations 17,584   
## R2 0.899   
## Adjusted R2 0.899   
## Residual Std. Error 1.005 (df = 17581)   
## F Statistic 77,968.980\*\*\* (df = 2; 17581)  
## =================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

olsendo <- lm(y5 ~ x1 + x2, data=iv)  
stargazer(olsendo, type = "text")

##   
## ==================================================  
## Dependent variable:   
## ------------------------------  
## y5   
## --------------------------------------------------  
## x1 2.930\*\*\*   
## (0.007)   
##   
## x2 1.680\*\*\*   
## (0.007)   
##   
## Constant 0.490\*\*\*   
## (0.007)   
##   
## --------------------------------------------------  
## Observations 17,584   
## R2 0.932   
## Adjusted R2 0.932   
## Residual Std. Error 0.965 (df = 17581)   
## F Statistic 120,701.300\*\*\* (df = 2; 17581)  
## ==================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

# X1 is endogenous because its correlation with the error term is approximately 0.6.

# X2 should be the variable to consider first because we expect the estimates to be less biased.

# Z1 is endogenous with withh a correlation of 0.6 with the error term.

# Z2 is not valid because it scorrelation with X1 is 0.

# Z3 is the best candidate altough its correlation with X1 is somehow weak.

# Z4 is weak.

# ndependent of your answer in the previous points: consider using Z4 as an instrument for X2:

# Which of the two assumptions can you test? Is it satisfied?

# we can test for the relevance assumption by calculating the correlation between Xi and Z4.

cor.test(iv$z4, iv$x1)

##   
## Pearson's product-moment correlation  
##   
## data: iv$z4 and iv$x1  
## t = 2.2537, df = 17582, p-value = 0.02423  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## 0.002214089 0.031766931  
## sample estimates:  
## cor   
## 0.01699422

# As we can see the correlation roll out the use of Z4 as an instrument.

# Implementation of the 2SLS

firststage <- lm(x1 ~ x2 + z3, data=iv)  
summary(firststage)

##   
## Call:  
## lm(formula = x1 ~ x2 + z3, data = iv)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3.8181 -0.6625 0.0070 0.6684 3.6077   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -0.002372 0.007369 -0.322 0.747   
## x2 0.128994 0.007294 17.685 <2e-16 \*\*\*  
## z3 0.186035 0.007397 25.150 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.9771 on 17581 degrees of freedom  
## Multiple R-squared: 0.05069, Adjusted R-squared: 0.05059   
## F-statistic: 469.4 on 2 and 17581 DF, p-value: < 2.2e-16

iv<- iv[, x1hat:=predict(firststage, newdata=iv)]  
iv  
secondstage<- lm(y5 ~ x1hat + x2, data=iv)  
stargazer(secondstage, olsendo, type="text")

##   
## =============================================================  
## Dependent variable:   
## ----------------------------  
## y5   
## (1) (2)   
## -------------------------------------------------------------  
## x1hat 2.115\*\*\*   
## (0.124)   
##   
## x1 2.930\*\*\*   
## (0.007)   
##   
## x2 1.784\*\*\* 1.680\*\*\*   
## (0.028) (0.007)   
##   
## Constant 0.488\*\*\* 0.490\*\*\*   
## (0.023) (0.007)   
##   
## -------------------------------------------------------------  
## Observations 17,584 17,584   
## R2 0.325 0.932   
## Adjusted R2 0.325 0.932   
## Residual Std. Error (df = 17581) 3.044 0.965   
## F Statistic (df = 2; 17581) 4,231.712\*\*\* 120,701.300\*\*\*  
## =============================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

# This table offers an overview that can help to establish the comparison asked in the first part of the exercice.

# For the question related to the MM-IV, I am still delving into to understand it better. I will update the file later on.

## Comparing IVregs:

# IV with Z1

library(ivreg)  
ivz1 <- ivreg(y5~x1+x2|x2 + z1, data=iv)  
  
ivz2 <- ivreg(y5~x1+x2|x2 + z2, data=iv)  
  
ivz3 <- ivreg(y5~x1+x2|x2 + z3, data=iv)  
  
ivz4 <- ivreg(y5~x1+x2|x2 + z4, data=iv)  
  
stargazer (secondstage, ivz1, ivz2,ivz3,ivz4, type="text")

##   
## =================================================================================================  
## Dependent variable:   
## ----------------------------------------------------------------  
## y5   
## OLS instrumental   
## variable   
## (1) (2) (3) (4) (5)   
## -------------------------------------------------------------------------------------------------  
## x1hat 2.115\*\*\*   
## (0.124)   
##   
## x1 3.761\*\*\* 4.983 2.115\*\*\* 2.263\*\*\*  
## (0.019) (3.997) (0.051) (0.459)   
##   
## x2 1.784\*\*\* 1.574\*\*\* 1.418\*\*\* 1.784\*\*\* 1.765\*\*\*  
## (0.028) (0.010) (0.510) (0.011) (0.059)   
##   
## Constant 0.488\*\*\* 0.492\*\*\* 0.495\*\*\* 0.488\*\*\* 0.488\*\*\*  
## (0.023) (0.010) (0.019) (0.010) (0.009)   
##   
## -------------------------------------------------------------------------------------------------  
## Observations 17,584 17,584 17,584 17,584 17,584   
## R2 0.325 0.882 0.628 0.884 0.900   
## Adjusted R2 0.325 0.882 0.628 0.884 0.900   
## Residual Std. Error (df = 17581) 3.044 1.271 2.259 1.260 1.171   
## F Statistic 4,231.712\*\*\* (df = 2; 17581)   
## =================================================================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

# Also compare the ivreg result to your own “on foot regression”

Den <- cov(iv$z3, iv$x1)  
Num <- cov(iv$z3, iv$y4)  
iv\_foot = Num/Den   
iv\_foot

## [1] 2.149448