

Statistical Learning - Homework 5 (Applied)

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Question 6 - Exercise 9

a)

```
library(ISLR)
data(College)
set.seed(1)
train = sample(1:dim(College)[1], dim(College)[1]/2)
test <- train
College.train = College[train, ]
College.test = College[test, ]
```

b)

```
fit.lm = lm(Apps ~ ., data = College.train)
pred.lm = predict(fit.lm, College.test)
mse <- mean((pred.lm - College.test$Apps)^2)

cat(mse)
```

```
## 1108531
```

The test MSE is 1108531.

c)

```
library(glmnet)

## Loading required package: Matrix
## Loading required package: foreach
## Loaded glmnet 2.0-16

train.mat = model.matrix(Apps ~ ., data = College.train)
test.mat = model.matrix(Apps ~ ., data = College.test)
grid = 10^seq(4, -2, length=100)
fit.ridge = glmnet(train.mat, College.train$Apps, alpha = 0, lambda = grid, thresh = 1e-12)
cv.ridge = cv.glmnet(train.mat, College.train$Apps, alpha = 0, lambda = grid, thresh = 1e-12)
bestlam.ridge = cv.ridge$lambda.min
bestlam.ridge
```

```
## [1] 0.01149757
```

```
pred.ridge <- predict(fit.ridge, s = bestlam.ridge, newx = test.mat)
mean((pred.ridge - College.test$Apps)^2)
```

```
## [1] 1108512
```

```
cat(bestlam.ridge)
```

```
## 0.01149757
```

The test error here is 1108512, which is roughly the same as least squares.

d)

```
fit.lasso = glmnet(train.mat, College.train$Apps, alpha = 1, lambda = grid, thresh = 1e-12)
cv.lasso = cv.glmnet(train.mat, College.train$Apps, alpha = 1, lambda = grid, thresh = 1e-12)
bestlam.lasso = cv.lasso$lambda.min
bestlam.lasso
```

```
## [1] 28.48036
```

```
pred.lasso = predict(fit.lasso, s = bestlam.lasso, newx = test.mat)
lasso.mse <- mean((pred.lasso - College.test$Apps)^2)
pred.lasso <- predict(fit.lasso, s = bestlam.lasso, type = "coefficients")
pred.lasso
```

```
## 19 x 1 sparse Matrix of class "dgCMatrix"
```

```
##              1
## (Intercept) -4.248125e+02
## (Intercept) .
## PrivateYes  -4.955003e+02
## Accept      1.540306e+00
## Enroll      -3.900157e-01
## Top10perc   4.779689e+01
## Top25perc   -7.926581e+00
## F.Undergrad -9.846932e-03
## P.Undergrad .
## Outstate    -5.231286e-02
## Room.Board  1.880308e-01
## Books       1.265938e-03
## Personal    .
## PhD         -4.137294e+00
## Terminal    -3.184316e+00
## S.F.Ratio    .
## perc.alumni -2.181304e+00
## Expend      3.193679e-02
## Grad.Rate    2.877667e+00
```

```
pred.lasso <- predict(fit.lasso, s = bestlam.lasso, newx = test.mat)
mean((pred.lasso - College.test$Apps)^2)
```

```
## [1] 1028718
```

```
cat(lasso.mse)
```

```
## 1028718
```

The test error is 1038776, which is slight lower than least squares and ridge regression, and the number of non-zero coefficients is 15.

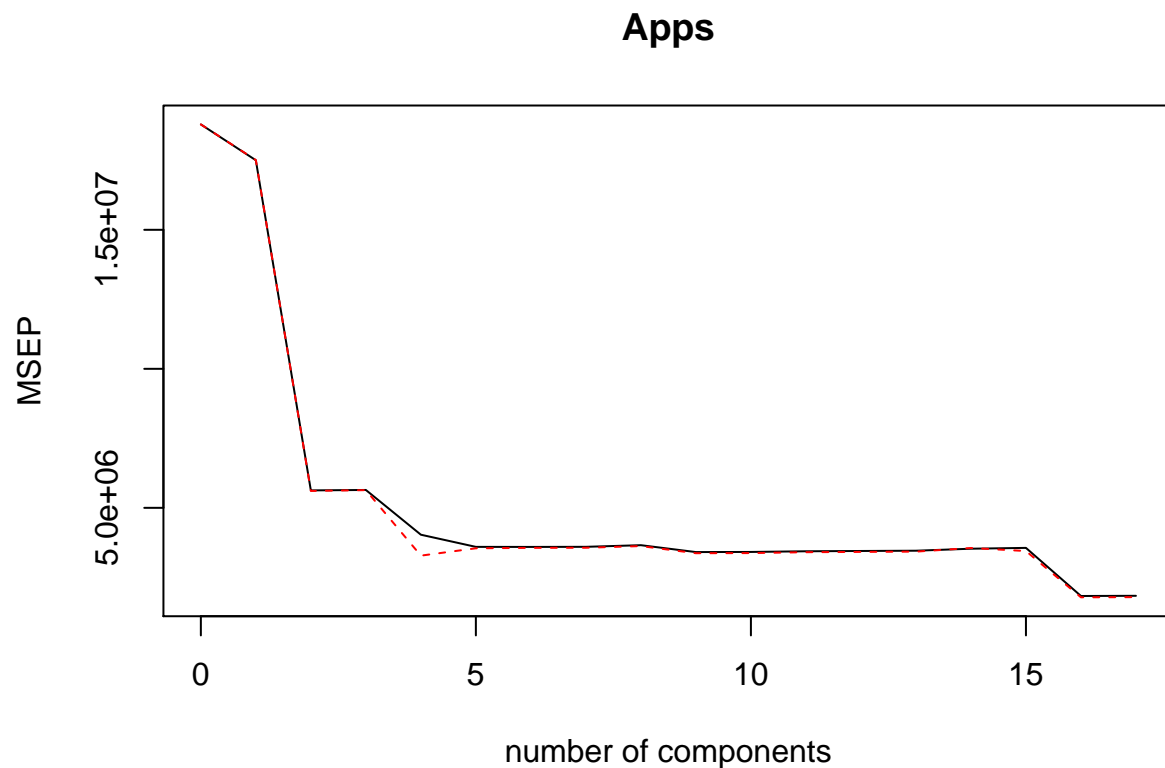
e)

```
library(analogue)
```

```
## Loading required package: vegan
## Loading required package: permute
## Loading required package: lattice
## This is vegan 2.5-4
## analogue version 0.17-1
```

```
library(pls)

##
## Attaching package: 'pls'
## The following objects are masked from 'package:analogue':
##
##   crossval, pcr, RMSEP
## The following object is masked from 'package:vegan':
##
##   scores
## The following object is masked from 'package:stats':
##
##   loadings
fit.pcr = pcr(Apps ~ ., data = College.train, scale = TRUE, validation = "CV")
validationplot(fit.pcr, val.type = "MSEP")
```



```
pred.pcr <- predict(fit.pcr, College.test, ncomp = 10)
pcr.mse <- mean((pred.pcr - College.test$Apps)^2)

cat(pcr.mse)

## 1505718
summary(fit.pcr)
```

```

## Data:      X dimension: 388 17
## Y dimension: 388 1
## Fit method: svdpc
## Number of components considered: 17
##
## VALIDATION: RMSEP
## Cross-validated using 10 random segments.
##      (Intercept)  1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## CV              4335    4184    2372    2376    2009    1896    1896
## adjCV           4335    4184    2368    2374    1811    1883    1887
##      7 comps  8 comps  9 comps 10 comps 11 comps 12 comps 13 comps
## CV              1897    1912    1847    1848    1854    1857    1860
## adjCV           1888    1904    1835    1837    1845    1848    1851
##      14 comps 15 comps 16 comps 17 comps
## CV              1879    1887    1353    1355
## adjCV           1886    1856    1335    1337
##
## TRAINING: % variance explained
##      1 comps  2 comps  3 comps  4 comps  5 comps  6 comps  7 comps
## X          31.216  57.68   64.73   70.55   76.33   81.30   85.01
## Apps       6.976  71.47   71.58   83.32   83.44   83.45   83.46
##      8 comps  9 comps 10 comps 11 comps 12 comps 13 comps 14 comps
## X          88.40   91.16   93.36   95.38   96.94   97.96   98.76
## Apps       83.47   84.53   84.86   84.98   84.98   84.99   85.24
##      15 comps 16 comps 17 comps
## X          99.40   99.87  100.00
## Apps       90.87   93.93   93.97

```

The test MSE is 1505718, which is a moderate amount higher than the other models observed so far. The best value of M found through cross-validation is 17.

f)

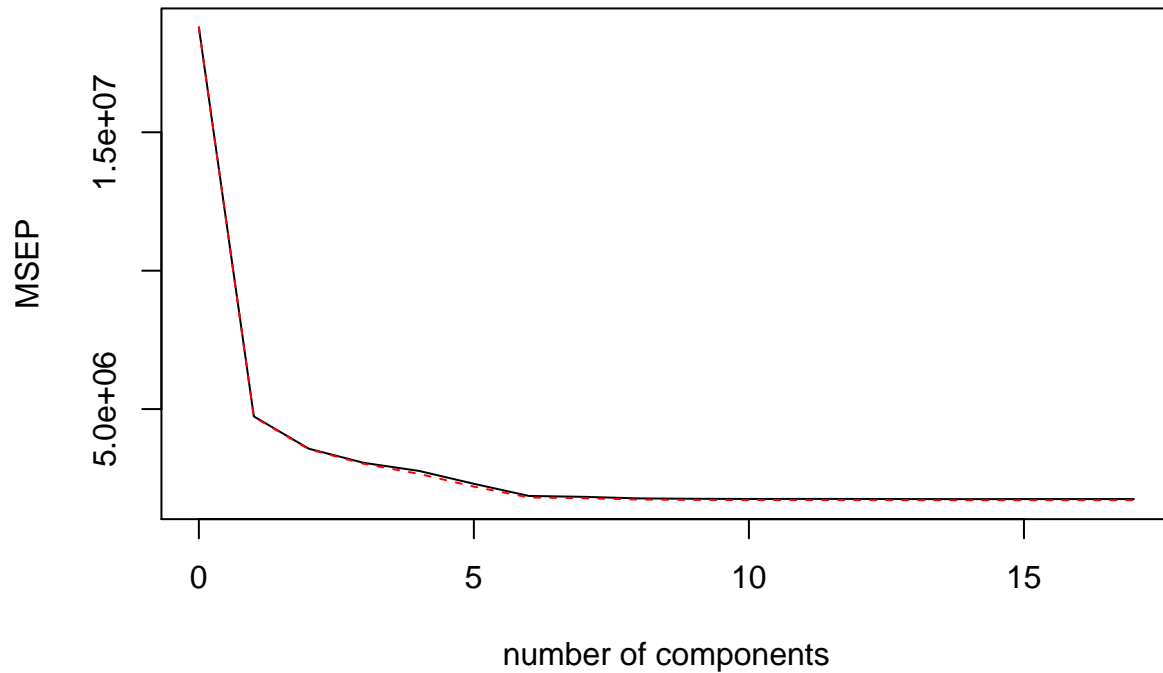
```

library(pls)

fit.pls = plsr(Apps ~ ., data = College.train, scale = TRUE, validation = "CV")
validationplot(fit.pls, val.type = "MSEP")

```

Apps



```
pred.pls = predict(fit.pls, College.test, ncomp = 10)
pls.mse <- mean((pred.pls - College.test$Apps)^2)

cat(pls.mse)
```

```
## 1134531
```

```
summary(fit.pls)
```

```
## Data:      X dimension: 388 17
## Y dimension: 388 1
## Fit method: kernelpls
## Number of components considered: 17
##
## VALIDATION: RMSEP
## Cross-validated using 10 random segments.
##      (Intercept)  1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## CV              4335    2176    1889    1748    1663    1517    1364
## adjCV           4335    2171    1884    1738    1631    1483    1345
##      7 comps  8 comps  9 comps 10 comps 11 comps 12 comps 13 comps
## CV          1353    1332    1327    1324    1325    1324    1323
## adjCV        1334    1315    1311    1309    1309    1309    1307
##      14 comps 15 comps 16 comps 17 comps
## CV          1322    1322    1323    1323
## adjCV        1306    1307    1307    1307
##
## TRAINING: % variance explained
```

##	1 comps	2 comps	3 comps	4 comps	5 comps	6 comps	7 comps
## X	26.91	43.08	63.26	65.16	68.50	73.75	76.10
## Apps	76.64	83.93	87.14	91.90	93.49	93.85	93.91
##	8 comps	9 comps	10 comps	11 comps	12 comps	13 comps	14 comps
## X	79.03	81.76	85.41	89.03	91.38	93.31	95.43
## Apps	93.94	93.96	93.96	93.96	93.97	93.97	93.97
##	15 comps	16 comps	17 comps				
## X	97.41	98.78	100.00				
## Apps	93.97	93.97	93.97				

The test MSE is 1134531, which is on par with the other models. The best value of M found through cross-validation is 17, which is exactly what was discovered with PCR.

g)

```
test.avg = mean(College.test$Apps)
lm.r2 = 1 - mean((pred.lm - College.test$Apps)^2)/mean((test.avg-College.test$Apps)^2)
ridge.r2 = 1 - mean((pred.ridge - College.test$Apps)^2)/mean((test.avg-College.test$Apps)^2)
lasso.r2 = 1 - mean((pred.lasso - College.test$Apps)^2)/mean((test.avg-College.test$Apps)^2)
pcr.r2 = 1 - mean((pred.pcr - College.test$Apps)^2)/mean((test.avg-College.test$Apps)^2)
pls.r2 = 1 - mean((pred.pls - College.test$Apps)^2)/mean((test.avg-College.test$Apps)^2)

cat(lm.r2)

## 0.9010682

cat(ridge.r2)

## 0.90107

cat(lasso.r2)

## 0.9081912

cat(pcr.r2)

## 0.865621

cat(pls.r2)

## 0.8987478
```

The above calculates the correlation for each of the models (lm, ridge, lasso, pcr, pls in that order) with the predictions. Clearly, PCR has the lowest correlation by far out of all the models, although it's decent at 0.8127. However, all four other models have an r^2 value around 0.9, so they can predict college applications pretty accurately. None of the errors were too terrible different from each other (except for PCR), so we can't really say it's the most accurate distinguishing factor of these models; all would work perfectly fine in general.

Chapter 6 - Exercise 10

a)

```
set.seed(1)
x = matrix(rnorm(1000*20), 1000, 20)
b = rnorm(20)
b[3] = 0
b[4] = 0
b[9] = 0
```

```

b[10] = 0
b[19] = 0
eps = rnorm(1000)
y = x%%b + eps

```

b)

```

train = sample(seq(1000), 100, replace = FALSE)
test <-- train
x.train = x[train, ]
x.test = x[test, ]
y.train = y[train]
y.test = y[test]

```

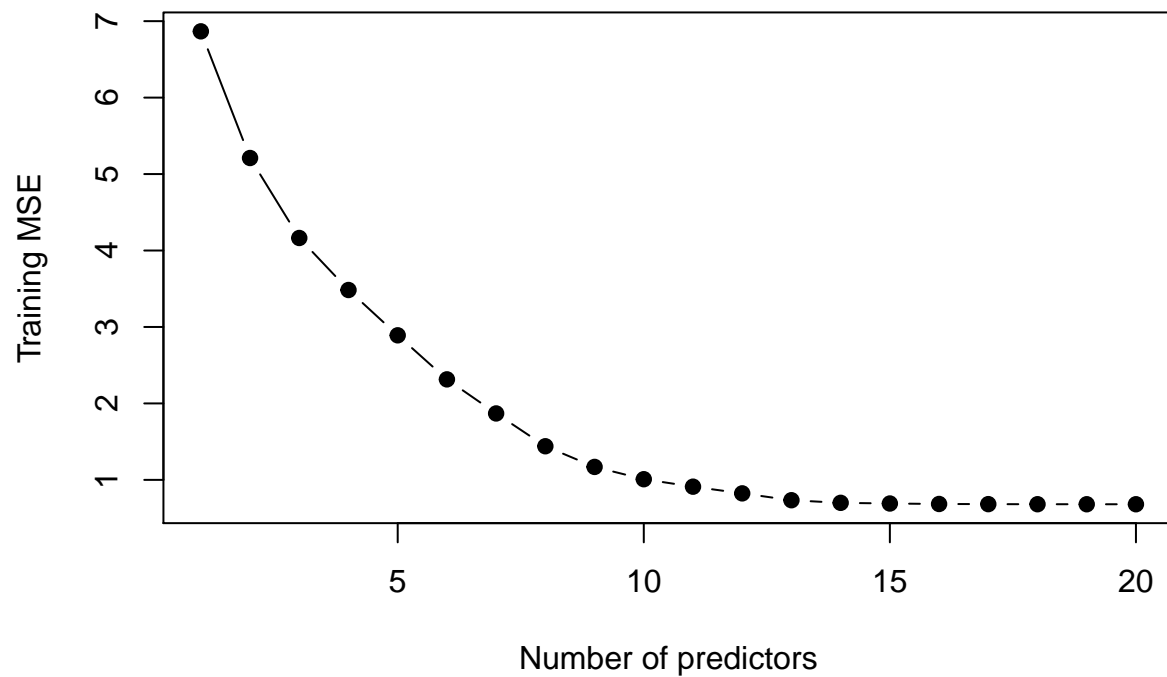
c)

```

library(leaps)

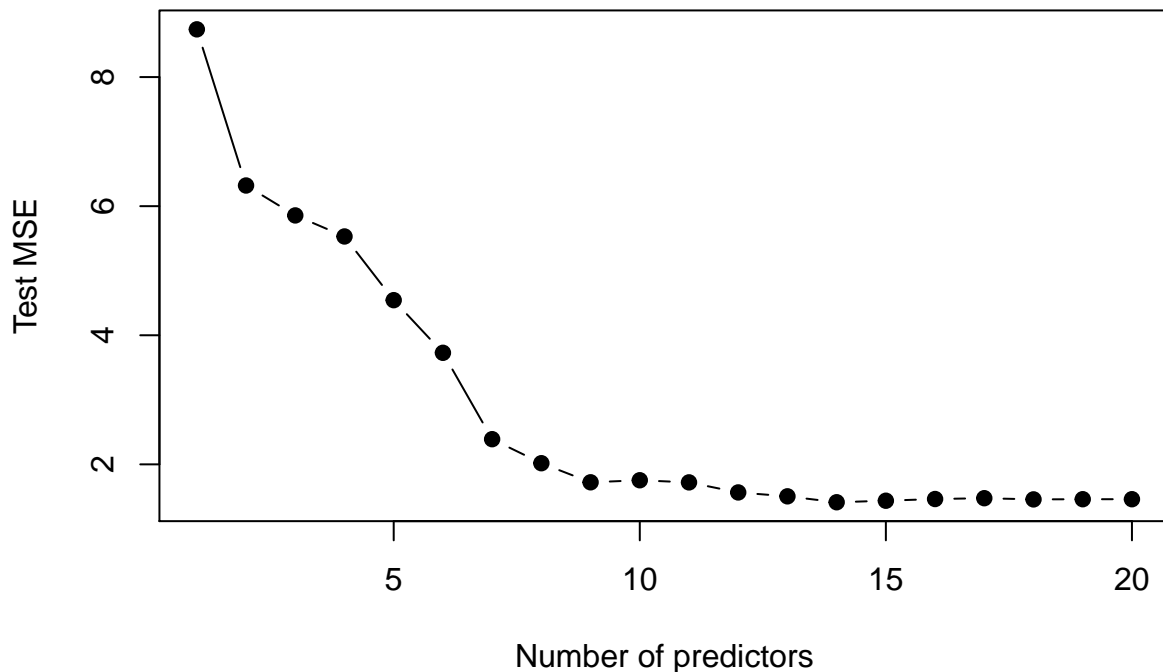
data.train = data.frame(y = y.train, x = x.train)
regfit.full = regsubsets(y ~ ., data = data.train, nvmax = 20)
train.mat = model.matrix(y ~ ., data = data.train, nvmax = 20)
val.errors = rep(NA, 20)
for(i in 1:20){
  coefi = coef(regfit.full, id = i)
  pred = train.mat[, names(coefi)]%%coefi
  val.errors[i] = mean((pred - y.train)^2)
}
plot(val.errors, xlab = "Number of predictors", ylab = "Training MSE", pch = 19, type = "b")

```



d)

```
data.test = data.frame(y = y.test, x = x.test)
test.mat = model.matrix(y ~ ., data = data.test, nvmax = 20)
val.errors = rep(NA, 20)
for(i in 1:20){
  coefi = coef(regfit.full, id = i)
  pred = test.mat[, names(coefi)]%*%coefi
  val.errors[i] = mean((pred - y.test)^2)
}
plot(val.errors, xlab = "Number of predictors", ylab = "Test MSE", pch = 19, type = "b")
```

e)

```
which.min(val.errors)
```

```
## [1] 14
```

The model with the smallest test MSE is with 14 predictors. .

f)

```
coef(regfit.full, which.min(val.errors))
```

```
## (Intercept)      x.1      x.2      x.5      x.7      x.8
##  0.1630514  0.3707851  0.3176740  1.0424379 -1.2895997  0.8308835
##      x.11      x.12      x.13      x.14      x.15      x.16
##  0.6919104  0.5638802 -0.3641320 -0.8346409 -0.5667810 -0.1959694
##      x.17      x.18      x.20
##  0.3128194  1.5567459 -0.7831598
```

The true model for the sum of squares is minimized with the above coefficients. In part a), we generate the coefficients based on a normal distribution. If you observe the coefficient values of this model, we can see they're roughly normal-ish, so this model seems to be close to the true model. It's not terribly far off, but it's definitely not perfect.

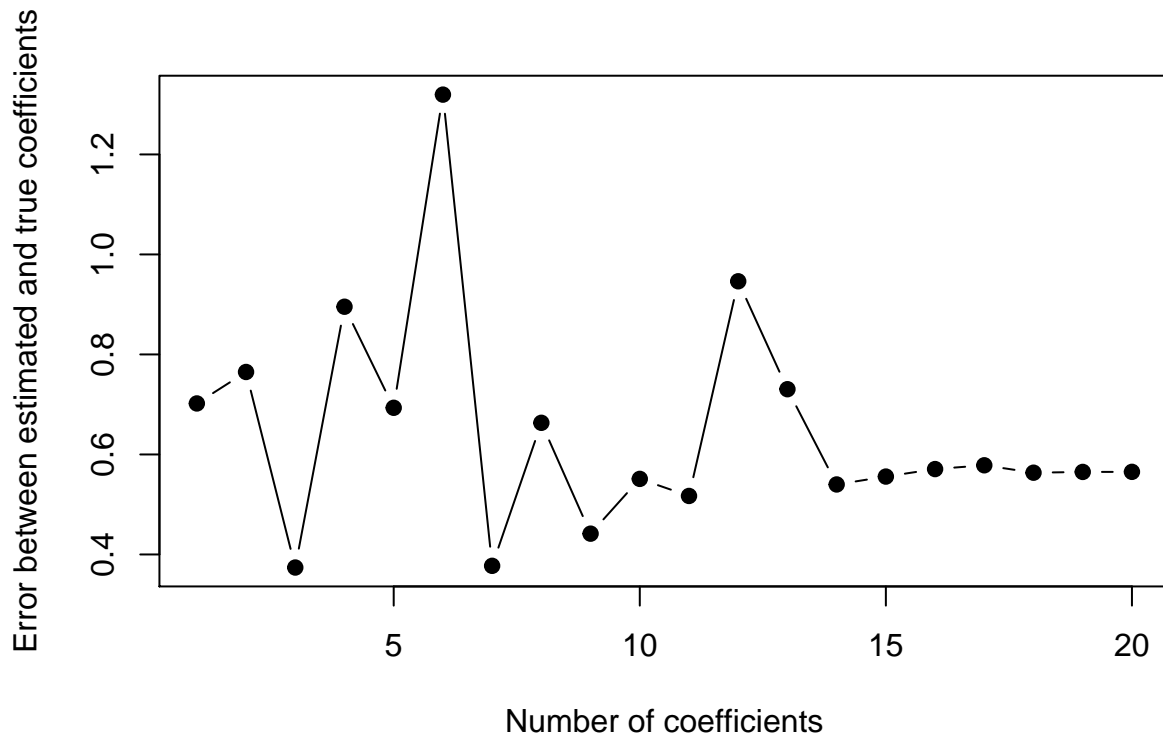
g)

```
val.errors = rep(NA,20)
x_cols = colnames(x,do.NULL = FALSE, prefix = 'x.')
for(i in 1:20){
  coefi = coef(regfit.full, id=i)
```

```

    val.errors[i]= sqrt(sum((b[x_cols%in%names(coefi)]-coefi[names(coefi)%in%x_cols])^2) + sum(b[!(x_co
  }
plot(val.errors, xlab = "Number of coefficients", ylab = "Error between estimated and true coefficients")

```



Compared to the test MSE graph in part d), the graphs look significantly different. In fact, we can observe when the model has 3 or 7 coefficients, it's performing the most optimally. Regardless, once we reach a large number of coefficients (i.e. 15+), the error seems to level out and there begins to be no more additional benefit in making the model more complex (this appears in both charts). As such, it may be worth investigating a model with 4 or 7 coefficients/features since the graph in part d) generally indicates “more features is less test MSE”. However, with that being said, after analyzing both charts, a model with 7 predictors proves to be a good tradeoff between model complexity, fit, and interpretability. It has the lowest error rate in this chart, and close to the smallest test MSE in the chart in part d).

Question 6

```

library(glmnet)
library(analogue)
library(pls)
set.seed(1)

newsData <- read.table("OnlineNewsPopularity.csv", header=TRUE, sep=",")
train = sample(1:dim(newsData)[1], dim(newsData)[1]/2)
test <- train
newsData.train = newsData[train, ]
newsData.test = newsData[test, ]

```

```

fit.lm = lm(shares ~ data_channel_is_entertainment + data_channel_is_socmed + data_channel_is_world +
pred.lm = predict(fit.lm, newsData.test)
mse <- mean((pred.lm - newsData.test$shares)^2)
cat(mse)

## 123978337

train.mat = model.matrix(shares ~ data_channel_is_entertainment + data_channel_is_socmed + data_channel_
test.mat = model.matrix(shares ~ data_channel_is_entertainment + data_channel_is_socmed + data_channel_
grid = 10^seq(4, -2, length=100)
fit.ridge = glmnet(train.mat, newsData.train$shares, alpha = 0, lambda = grid, thresh = 1e-12)
cv.ridge = cv.glmnet(train.mat, newsData.train$shares, alpha = 0, lambda = grid, thresh = 1e-12)
bestlam.ridge = cv.ridge$lambda.min
bestlam.ridge

## [1] 151.9911

pred.ridge = predict(fit.ridge,s=bestlam.ridge,newx = test.mat)
cat(bestlam.ridge)

## 151.9911

fit.lasso = glmnet(train.mat, newsData.train$shares, alpha = 1, lambda = grid, thresh = 1e-12)
cv.lasso = cv.glmnet(train.mat, newsData.train$shares, alpha = 1, lambda = grid, thresh = 1e-12)
bestlam.lasso = cv.lasso$lambda.min
bestlam.lasso

## [1] 8.111308

pred.lasso = predict(fit.lasso, s = bestlam.lasso, newx = test.mat)
lasso.mse <- mean((pred.lasso - newsData.test$shares)^2)
cat(lasso.mse)

## 123984675

pred.lasso

##          1
## 1      905.63378
## 2     1570.45548
## 3     1600.60330
## 5     1609.20256
## 6     1620.62429
## 8     1222.36263
## 9     1609.04647
## 10      94.72086
## 12     1609.16565
## 16      46.71179
## 17     1588.58326
## 19     1600.41360
## 20     1615.63842
## 24      346.80214
## 27     1420.53930
## 28     1620.63602
## 29     1624.61507
## 31     1609.20878
## 33     1620.62473

```

## 34	1174.66836
## 36	1623.71120
## 40	590.49429
## 41	1620.63978
## 43	1609.20829
## 44	1624.64040
## 49	1620.63729
## 50	1615.63824
## 53	1620.63927
## 54	917.63643
## 57	1609.13017
## 58	1620.54385
## 60	1600.63466
## 61	1624.63031
## 64	1620.63219
## 65	1620.63906
## 67	1620.38585
## 68	94.72299
## 70	1600.62155
## 71	733.73110
## 77	941.62021
## 81	862.20534
## 83	1182.86895
## 85	2330.62632
## 86	2705.31256
## 89	1410.98816
## 90	2647.06247
## 95	2357.60831
## 98	2873.70106
## 99	2222.90605
## 100	1705.24122
## 101	4072.92667
## 102	2881.30071
## 103	2746.01639
## 105	1519.70991
## 106	1264.24579
## 107	294.94399
## 108	2454.94013
## 110	2677.83246
## 112	2138.25923
## 113	3735.19559
## 117	2042.69400
## 119	2342.23310
## 121	2051.31992
## 122	2304.82481
## 123	2421.55437
## 124	1095.24656
## 129	2486.20364
## 131	1640.51397
## 133	2770.14539
## 135	2693.88522
## 137	2711.23123
## 139	651.93124
## 143	2297.45927

## 145	1715.10168
## 147	869.70251
## 150	1003.82120
## 152	1797.89152
## 154	2535.93706
## 159	631.88749
## 160	2276.76200
## 162	2564.81369
## 163	2657.56190
## 165	2052.99672
## 166	2383.57576
## 168	2525.84307
## 169	723.70540
## 175	1352.30319
## 176	533.63385
## 177	4354.77202
## 181	2450.15552
## 183	1864.15266
## 185	1414.37490
## 187	1350.54447
## 189	2180.75852
## 191	3326.48638
## 192	2624.46310
## 195	3462.70413
## 198	1653.76056
## 202	2526.55039
## 203	2320.16387
## 204	762.55567
## 206	862.29459
## 207	3426.95546
## 209	2206.45827
## 212	4076.55016
## 214	1167.32754
## 215	2447.28954
## 217	2765.06652
## 219	2953.90328
## 220	1731.31902
## 221	1853.61743
## 223	2588.67955
## 227	2867.42280
## 228	2348.02366
## 229	2466.49778
## 230	2485.29936
## 235	2874.02387
## 236	2583.14195
## 237	2413.01575
## 239	2745.73100
## 240	2786.32988
## 241	2198.48379
## 242	2825.91869
## 244	3271.26812
## 245	3798.97465
## 248	2645.82749
## 249	2217.53462

## 254	3518.98110
## 255	2214.47582
## 256	2600.04796
## 257	2226.07939
## 258	2730.81821
## 264	2850.96080
## 265	3942.76715
## 268	2683.64475
## 269	2826.12767
## 270	2714.85880
## 271	2975.46033
## 272	1778.05144
## 273	1212.70995
## 274	2996.29985
## 275	2708.61191
## 276	2519.35190
## 278	2629.93606
## 281	1937.08279
## 283	2541.53419
## 289	3510.80025
## 291	2722.80929
## 293	3778.98560
## 298	3017.03397
## 300	2697.56309
## 301	561.78807
## 305	3597.45487
## 306	2598.37787
## 311	3545.41766
## 312	1647.12728
## 314	3063.70540
## 315	3032.92627
## 316	3292.82757
## 317	2662.20235
## 321	2805.94418
## 326	2815.94736
## 329	3145.59905
## 331	3311.79177
## 332	1011.52796
## 333	3203.89247
## 334	3016.47692
## 335	2717.37075
## 339	1950.90055
## 340	2859.74465
## 344	3515.97942
## 347	1950.91315
## 348	1646.15598
## 349	3152.88217
## 350	3118.43318
## 354	3975.01444
## 358	2158.32670
## 359	2507.49344
## 364	2685.12181
## 365	1995.95811
## 366	2895.83091

## 368	2894.28852
## 370	2571.84074
## 373	1876.31451
## 375	2644.14220
## 376	2526.78763
## 377	2989.42125
## 378	3062.14170
## 382	2425.26458
## 386	2343.01869
## 387	1786.94302
## 388	3627.33081
## 389	3958.92496
## 390	3600.54760
## 391	3315.67666
## 392	2700.42466
## 394	2589.65454
## 395	3199.41782
## 396	3326.05177
## 397	2709.70682
## 399	2870.88743
## 403	2772.15018
## 406	1584.63219
## 408	2057.46319
## 414	2551.62802
## 416	3504.74162
## 417	2832.15210
## 420	3216.18064
## 421	2737.67672
## 422	2790.76662
## 424	3148.62145
## 425	3246.19216
## 426	2292.53890
## 427	2429.17048
## 428	2870.93893
## 429	2997.23033
## 431	1093.88935
## 433	2850.33119
## 435	3123.85856
## 443	1488.13111
## 444	1876.92721
## 445	3049.36412
## 446	2619.01760
## 451	2577.08755
## 453	3181.94335
## 454	2538.67590
## 455	1958.63945
## 456	3226.00934
## 457	2969.64667
## 461	3092.57301
## 462	2725.37984
## 464	2949.35033
## 466	1710.92632
## 467	2907.71277
## 468	3679.61183

## 469	3489.99814
## 471	3181.26794
## 472	2568.39593
## 478	3029.50016
## 479	2752.64161
## 480	3331.78560
## 481	2717.36482
## 482	2630.49358
## 484	3176.42160
## 486	2999.15548
## 490	2180.65276
## 491	3453.22810
## 492	505.84345
## 495	3087.03677
## 496	2158.40507
## 498	3688.87181
## 499	2679.79154
## 500	3455.22374
## 501	3386.24757
## 502	3358.47366
## 503	1738.78680
## 504	3043.92174
## 505	1893.71296
## 506	1610.51880
## 511	3007.88124
## 514	2304.53860
## 516	2472.55620
## 521	2505.58694
## 522	1493.78379
## 524	1644.88811
## 525	3909.30901
## 526	3326.93231
## 527	3204.25534
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## 1956	3384.72749
## 1958	1636.65143
## 1960	2052.62078
## 1961	3471.45858

##	1962	3660.48467
##	1963	3269.49960
##	1965	3089.14396
##	1966	2428.13649
##	1968	3728.56060
##	1969	2909.59506
##	1973	4347.65817
##	1977	3135.71241
##	1988	3372.82076
##	1989	3020.18394
##	1993	2977.60270
##	1997	3314.51127
##	1999	3076.23908
##	2003	3387.67161
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##	2009	2860.16250
##	2010	2522.11785
##	2011	3259.43212
##	2012	3187.20614
##	2018	2038.99439
##	2019	1024.84774
##	2020	2835.02259
##	2023	2681.89934
##	2024	3447.31838
##	2025	3825.14485
##	2029	2086.21197
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##	2036	2670.29275
##	2040	2891.09091
##	2047	3163.08427
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##	2051	2142.03755
##	2055	1774.87195
##	2058	2988.04372
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##	2063	1807.21988
##	2065	1080.64038
##	2067	3432.97167
##	2068	2520.73581
##	2069	3172.39195
##	2070	3163.18762
##	2072	3243.04004
##	2074	1239.25452
##	2075	3276.87583
##	2078	3161.60322
##	2084	3168.24261
##	2087	2496.22275
##	2088	2378.85133
##	2089	3027.08806
##	2091	1703.62293
##	2094	3401.78516
##	2095	1621.18345
##	2096	2542.67435

##	2097	1852.85974
##	2100	3114.77452
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##	2103	3650.40063
##	2104	2354.55221
##	2106	2723.85551
##	2107	3725.92041
##	2114	2940.12640
##	2117	1126.33109
##	2118	1379.12977
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##	2129	2092.96883
##	2133	2706.01971
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##	2136	2505.73946
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##	2140	2393.62803
##	2141	2579.27514
##	2143	3914.55005
##	2145	3578.11894
##	2146	3403.76895
##	2149	3003.20385
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##	2151	3552.32066
##	2152	2982.42773
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##	2154	2899.42601
##	2155	3840.52009
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##	2159	3380.22599
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##	2166	2588.72706
##	2168	3483.22450
##	2170	2954.89917
##	2172	3329.43664
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##	2194	2869.94204
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##	2219	3053.76536
##	2220	1864.18924
##	2224	2810.49081
##	2227	2790.59862
##	2228	3389.14496
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##	2236	4172.86856
##	2237	2761.68873
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##	2254	3243.41363
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##	2396	4025.77946
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##	2485	3092.76444
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##	2495	1613.63069
##	2497	2370.31651
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##	2670	3494.68011
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##	2681	2060.84572
##	2682	3052.96366
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##	2686	3167.91285
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##	2689	3546.41454
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##	2713	3288.26624
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## 2762	3168.54835
## 2763	4202.99545
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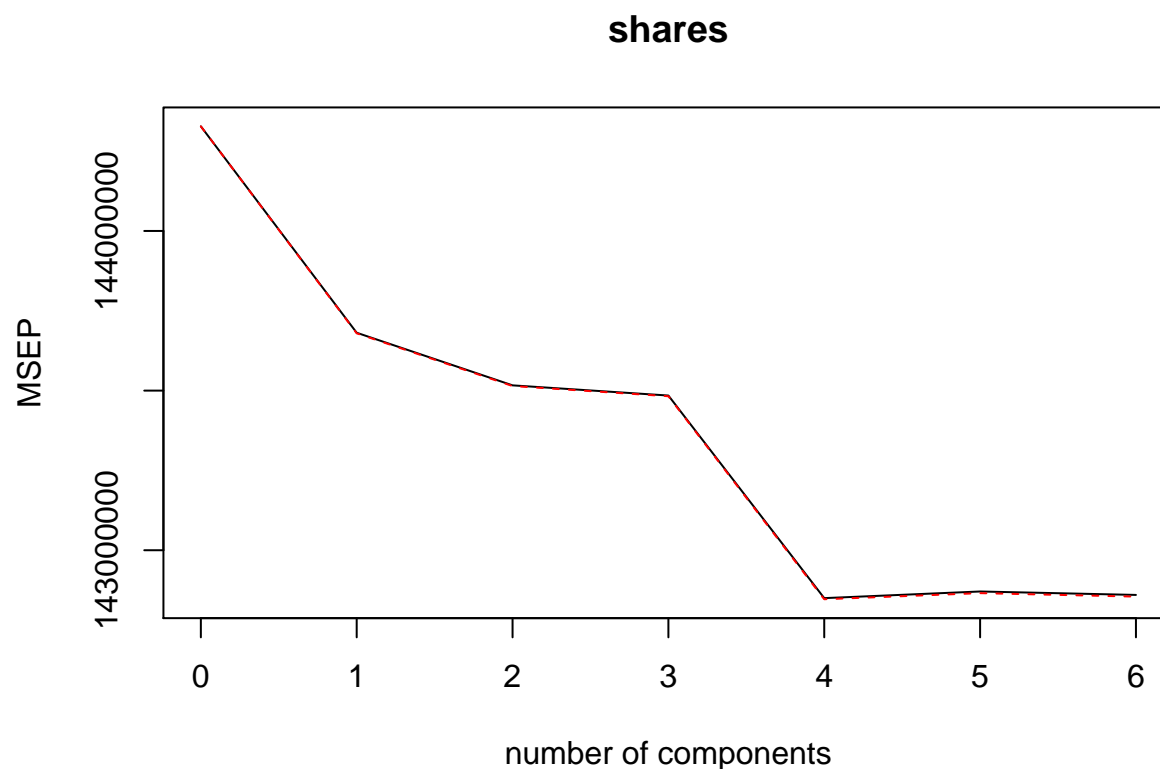
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## 39632 1732.90683
## 39634 1549.06910
## 39635 5362.75177
## 39637 4703.11008
## 39638 2876.10448
## 39643 1353.21946
```

```
fit.pcr = pcr(shares ~ data_channel_is_entertainment + data_channel_is_socmed + data_channel_is_world +
validationplot(fit.pcr, val.type = "MSEP")
```



```
pred.pcr <- predict(fit.pcr, newsData.test, ncomp = 5)
pcr.mse <- mean((pred.pcr - newsData.test$shares)^2)
cat(pcr.mse)
```

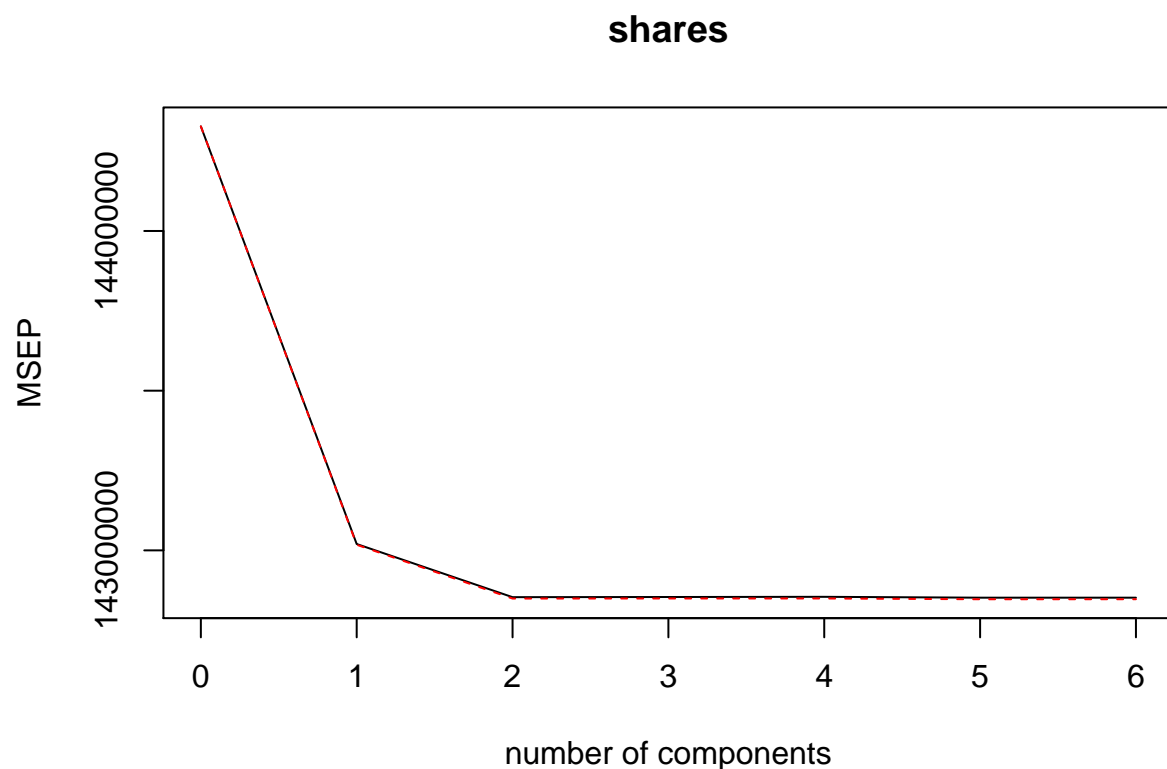
```
## 123983546
```

```
summary(fit.pcr)
```

```
## Data:      X dimension: 19822 6
## Y dimension: 19822 1
## Fit method: svdpc
## Number of components considered: 6
##
## VALIDATION: RMSEP
## Cross-validated using 10 random segments.
##      (Intercept)  1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## CV           12014   11987   11980   11979   11952   11953   11952
## adjCV        12014   11987   11980   11978   11952   11953   11952
##
## TRAINING: % variance explained
##      1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## X       34.1766  52.7784  69.4162  84.907   97.421  100.000
## shares   0.4635   0.5821   0.6047   1.059   1.068   1.077
```

```
library(pls)
```

```
fit.pls = plsr(shares ~ data_channel_is_entertainment + data_channel_is_socmed + data_channel_is_world +
validationplot(fit.pls, val.type = "MSEP")
```



```
pred.pls = predict(fit.pls, newsData.test, ncomp = 5)
pls.mse <- mean((pred.pls - newsData.test$shares)^2)
cat(pls.mse)
```

```
## 123977864
```

```
summary(fit.pls)
```

```
## Data:      X dimension: 19822 6
## Y dimension: 19822 1
## Fit method: kernelpls
## Number of components considered: 6
##
## VALIDATION: RMSEP
## Cross-validated using 10 random segments.
##      (Intercept)  1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## CV           12014   11959   11952   11952   11952   11952   11952
## adjCV        12014   11959   11952   11952   11952   11952   11952
##
## TRAINING: % variance explained
##      1 comps  2 comps  3 comps  4 comps  5 comps  6 comps
## X       30.1471   50.24   66.053   71.347   83.747  100.000
## shares   0.9368    1.07    1.073    1.077    1.077    1.077
```

```
test.avg = mean(newsData.test$shares)
lm.r2= 1 - mean((pred.lm - newsData.test$shares)^2)/mean((test.avg-newsData.test$shares)^2)
ridge.r2 = 1 - mean((pred.ridge - newsData.test$shares)^2)/mean((test.avg-newsData.test$shares)^2)
```

```

lasso.r2 = 1 - mean((pred.lasso - newsData.test$shares)^2)/mean((test.avg-newsData.test$shares)^2)
pcr.r2 = 1 - mean((pred.pcr - newsData.test$shares)^2)/mean((test.avg-newsData.test$shares)^2)
pls.r2 = 1 - mean((pred.pls - newsData.test$shares)^2)/mean((test.avg-newsData.test$shares)^2)
cat(lm.r2)

## 0.01643646

cat(ridge.r2)

## 0.01636399

cat(lasso.r2)

## 0.01638619

cat(pcr.r2)

## 0.01639514

cat(pls.r2)

## 0.01644022

```

In general, all the models have terrible correlation, while all having roughly the same (i.e. 0.0164). Therefore, none of the models are really superior to each other. In addition, the error rates are all basically the same, around 123 million MSE. The models we're currently using are very meh, but there are so many different combinations of variables we could use and explore, which we plan to do over Spring break. Some variables may be significant individually, but don't show to be significant with other predictors, or vice versa. Therefore, it's hard to gauge whether we deem our models acceptable or not. They may be the best things we'll get out of all the approaches we attempt. Therefore, even though there are a few good models that we've attained thus far, we can't assume they're the best models, but it also isn't a fair assessment to say they're terrible models either since every approach attempted so far has kept them in the ruling to be a good, or at least acceptable, model.

Question 7

Yes, we have all been getting similar results for the different classifiers. Most of us have tried all 3 classification algorithms (LDA, QDA, KNN) and then linear regression. No groundbreaking accuracies were achieved, as the other group members are getting round 60% accuracy for the classification task. We didn't compare the MSE for the linear regression, but we decided it was best to use only a subset of the features, rather than all features at once. Some of us included highly correlated features and interaction terms, while others used intuition to find the features that made the most sense for a regression model.

In general, we concluded this task is very difficult. We agree it's both a classification and regression task, but differ on how we split the data into different classes for the classification task (i.e. we can use quantiles or standard deviations from the mean). In terms of models, linear regression with 4 or 5 terms has been working the best and provides the most inference, but we don't completely agree on which features we want to use at the moment. LDA and QDA are nearly useless for us, but KNN and logistic regression have been somewhat interpretable and tolerable. As such, if we had the option, we would just continue with those 3, but we can explore a bit more with LDA and QDA now that we have many more tools since then.