Swarn Singh 3/24/2023

Group 11 Part 4 of the assignment - Dimensionality reduction

```
# Load required libraries
 library(caret)
 ## Loading required package: ggplot2
 ## Loading required package: lattice
 library(dplyr)
 ##
 ## Attaching package: 'dplyr'
    The following objects are masked from 'package:stats':
 ##
 ##
        filter, lag
    The following objects are masked from 'package:base':
 ##
 ##
 ##
        intersect, setdiff, setequal, union
 library(ggplot2)
 library(nnet) # Added for multinomial logistic regression
We will be using this dataset: https://www.kaggle.com/datasets/anmolkumar/house-price-prediction-
```

We will be using this dataset: https://www.kaggle.com/datasets/anmolkumar/house-price-prediction-challenge (https://www.kaggle.com/datasets/anmolkumar/house-price-prediction-challenge)

```
# ------
# Load the data and perform initial data exploration
# -------
# Load the data
df <- read.csv("train.csv")</pre>
```

```
# Set the seed for reproducibility
set.seed(1234)

# Split the data into train and test sets
i <- sample(1:nrow(df), nrow(df) * 0.8, replace = FALSE)
train <- df[i, ]
test <- df[-i, ]</pre>
```

```
##
                        UNDER CONSTRUCTION
                                                  RERA
                                                            BHK NO.
## UNDER CONSTRUCTION
                               1.000000000 0.361728508 -0.041073381
                               0.361728508 1.000000000 0.008237080
## RERA
                              -0.041073381 0.008237080 1.000000000
## BHK NO.
## SQUARE FT
                              -0.004745817 -0.007018417 0.005859245
## READY TO MOVE
                              -1.000000000 -0.361728508 0.041073381
                              -0.347487189 -0.267181265 0.017314520
## RESALE
## LONGITUDE
                               0.008051427 0.109646924 0.068948294
                               0.004102830 - 0.057603748 0.044238646
## LATITUDE
                               0.053285888 0.064323456 0.115352450
## TARGET.PRICE IN LACS.
                            SQUARE FT READY TO MOVE
##
                                                        RESALE
                                                                  LONGITUDE
## UNDER_CONSTRUCTION
                       -0.0047458169 -1.000000000 -0.34748719 0.008051427
## RERA
                        -0.0070184170 -0.361728508 -0.26718127 0.109646924
                                      0.041073381 0.01731452 0.068948294
## BHK NO.
                         0.0058592452
## SQUARE FT
                         1.000000000 0.004745817 0.00212955 -0.014161205
## READY TO MOVE
                         0.0047458169 1.000000000 0.34748719 -0.008051427
## RESALE
                         -0.0141612053 -0.008051427 0.02255230 1.000000000
## LONGITUDE
## LATITUDE
                        0.0009355717 - 0.004102830 \ 0.01529058 - 0.167095295
## TARGET.PRICE IN LACS. 0.4429297866 -0.053285888 -0.19683851 -0.033026736
##
                             LATITUDE TARGET.PRICE IN LACS.
## UNDER CONSTRUCTION
                         0.0041028297
                                                0.05328589
                        -0.0576037479
## RERA
                                                0.06432346
## BHK NO.
                         0.0442386465
                                                0.11535245
## SQUARE FT
                         0.0009355717
                                                0.44292979
## READY TO MOVE
                      -0.0041028297
                                               -0.05328589
## RESALE
                        0.0152905825
                                               -0.19683851
## LONGITUDE
                        -0.1670952947
                                               -0.03302674
## LATITUDE
                         1.0000000000
                                               -0.01475222
## TARGET.PRICE IN LACS. -0.0147522160
                                               1.00000000
# Pre-process PCA
pca_out <- preProcess(pca_train, method = c("center", "scale", "pca"))</pre>
pca out
## Created from 23560 samples and 9 variables
##
## Pre-processing:
##
    - centered (9)
##
     - ignored (0)
```

##

##

##

- scaled (9)

- principal component signal extraction (9)

PCA needed 8 components to capture 95 percent of the variance

```
# Apply PCA
train_pc <- predict(pca_out, pca_train)
test_pc <- predict(pca_out, pca_test)

# Extract the 'POSTED_BY' column from train and test datasets
train_df <- train[, "POSTED_BY"]
test_df <- test[, "POSTED_BY"]

# Add the 'POSTED_BY' column to the train_pc and test_pc datasets
train_pc$POSTED_BY <- train_df
test_pc$POSTED_BY <- test_df

# Rename the datasets
train_dfNew <- train_pc
test_dfNew <- test_pc</pre>
```

Observing the correlation matrix output, we can identify some notable correlations: 1.

UNDER_CONSTRUCTION and READY_TO_MOVE have a perfect negative correlation (-1), meaning when one variable increases, the other decreases proportionally. This relationship is expected, as a property is either under construction or ready to move in, but not both. 2. RERA has a positive correlation with UNDER_CONSTRUCTION (0.36) and a negative correlation with READY_TO_MOVE (-0.36). This could indicate that properties registered under the RERA are more likely to be under construction. 3. TARGET.PRICE_IN_LACS. has a moderate positive correlation with SQUARE_FT (0.44), suggesting that as the square footage of a property increases, the target price also tends to increase.

Based on these insights, we can proceed with PCA or further data exploration and preprocessing to better understand the relationships between variables and their impact on the target variable.

```
# -----
# Check for missing values in the dataset
# ------
sapply(df, function(x) sum(is.na(x) == TRUE))
```

```
##
                POSTED BY
                              UNDER CONSTRUCTION
                                                                     RERA
##
                         0
##
                  BHK NO.
                                        BHK OR RK
                                                                SQUARE FT
##
           READY TO MOVE
##
                                           RESALE
                                                                  ADDRESS
##
                                                 0
                LONGITUDE
                                         LATITUDE TARGET.PRICE IN LACS.
##
                                                 0
##
```

The output shows that there are no missing values in the dataset.

```
# ------
# Fit multinomial logistic regression model on PCA-transformed data
# ------
multinom_model <- multinom(POSTED_BY ~ ., data = train_dfNew)</pre>
```

```
## # weights: 30 (18 variable)
## initial value 25883.305521
## iter 10 value 16567.810107
## iter 20 value 14523.374796
## iter 30 value 13415.747462
## iter 40 value 13363.706306
## iter 50 value 13363.671435
## final value 13363.489919
## converged
```

summary(multinom_model)

```
## Call:
## multinom(formula = POSTED BY ~ ., data = train dfNew)
##
## Coefficients:
                             PC1
                                        PC2
                                                    PC3
                                                                PC4
                                                                         PC5
##
          (Intercept)
## Dealer
             8.954201 -0.7092938 -0.227299 -0.36413083 -0.2858228 1.472664
             7.225698 - 2.3903984 - 3.784798 0.01171308 0.4582906 4.731383
## Owner
##
                 PC6
                          PC7
                                      PC8
## Dealer -0.1925916 1.338478 0.9567039
## Owner -0.4522976 3.099070 -8.8833581
##
## Std. Errors:
##
                             PC1
                                        PC2
                                                   PC3
                                                               PC4
                                                                         PC5
          (Intercept)
            0.9307416 0.09763973 0.1457515 0.05404108 0.07122852 0.1900337
## Dealer
            0.9313860 0.10463493 0.1733763 0.05595276 0.07479884 0.2082052
## Owner
##
                 PC6
                            PC7
## Dealer 0.08252738 0.1373996 0.1641817
## Owner 0.08513906 0.1478017 0.3137080
##
## Residual Deviance: 26726.98
## AIC: 26762.98
```

```
# Predict on the test set
test_pred <- predict(multinom_model, newdata = test_dfNew)

# Calculate accuracy
accuracy <- mean(test_pred == test_dfNew$POSTED_BY)
accuracy</pre>
```

```
## [1] 0.720421
```

```
# -----
# Create a confusion matrix
# -----
table(Predicted = test_pred, Actual = test_dfNew$POSTED_BY)
```

```
##
           Actual
## Predicted Builder Dealer Owner
               14
                     12
##
    Builder
                              3
##
    Dealer
               124
                     2896
                            750
##
    Owner
                 2
                     756
                         1334
```

We fit a multinomial logistic regression model to predict the 'POSTED_BY' variable using the principal components (PCs) obtained from PCA as features. The model's summary output provides the following information:

Coefficients:

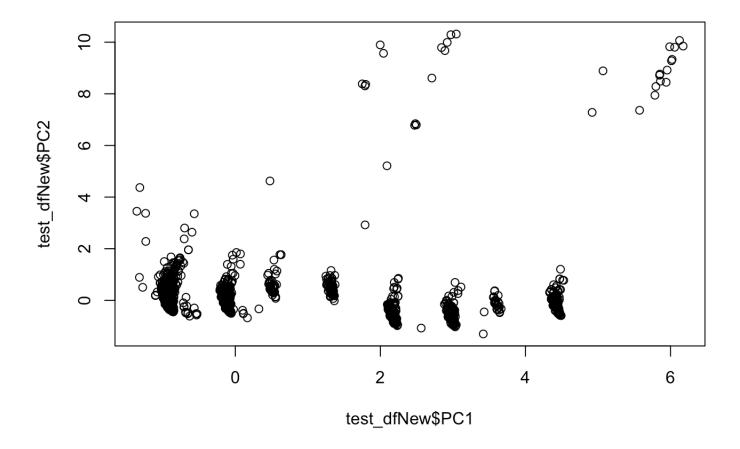
The coefficients for the Dealer and Owner categories are shown relative to the reference category (Builder). The negative coefficients for PC1 and PC2 in both categories suggest that as the values of these components increase, the likelihood of the property being posted by a dealer or an owner decreases relative to the likelihood of it being posted by a builder.

Std. Errors:

The standard errors for each coefficient estimate are also provided. Smaller values indicate greater precision in the coefficient estimates. For instance, the standard error for the Dealer's PC1 coefficient is smaller than that for the Owner's PC1 coefficient, suggesting that the Dealer's coefficient is estimated with greater precision.

Residual Deviance and AIC:

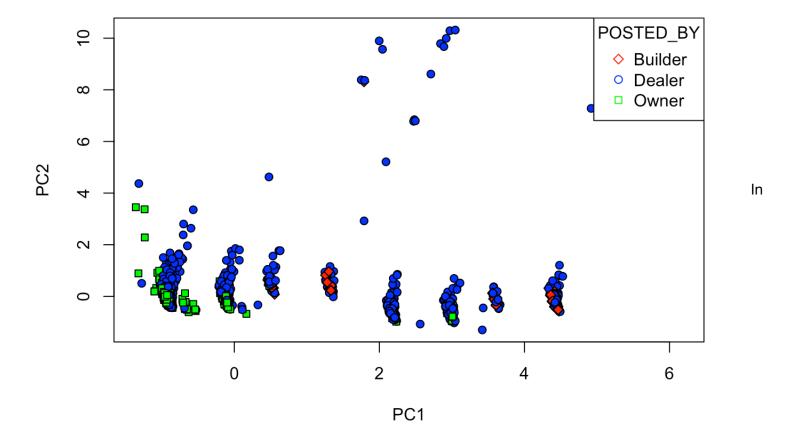
The residual deviance is a measure of the model's goodness of fit. A smaller value indicates a better-fitting model. In this case, the residual deviance is 26726.98. The Akaike Information Criterion (AIC) is another measure of the model's fit that takes into account both the goodness of fit and the model complexity. A smaller AIC value indicates a better-fitting model. The AIC for our multinomial logistic regression model is 26762.98.



```
# Assign colors and shapes based on the 'POSTED_BY' column
colors <- c("red", "blue", "green")
shapes <- c(23, 21, 22)
color_mapping <- colors[as.numeric(as.factor(test_dfNew$POSTED_BY))]
shape_mapping <- shapes[as.numeric(as.factor(test_dfNew$POSTED_BY))]

# Plot PC1 and PC2 with colors and shapes according to the 'POSTED_BY' column
plot(test_dfNew$PC1, test_dfNew$PC2, pch = shape_mapping, bg = color_mapping, xlab =
"PC1", ylab = "PC2")

# Add a legend
legend("topright", legend = levels(as.factor(test_dfNew$POSTED_BY)), pch = shapes, co
l = colors, title = "POSTED_BY")</pre>
```



this section, we create a scatter plot of the first two principal components (PC1 and PC2) of the test dataset. The plot helps us visualize the relationships between the observations in a lower-dimensional space. The points on the plot are color-coded based on the 'POSTED_BY' category (Dealer, Owner, or Builder).

From the plot, we can observe the following patterns:

- 1. Observe how well the points are clustered or separated based on the 'POSTED_BY' category. If the clusters are well-separated, it indicates that PC1 and PC2 capture a significant amount of the variance in the 'POSTED_BY' variable. On the other hand, if the clusters overlap, it might be necessary to include more principal components or use a different modeling approach.
- 2. Examine the spread of points within each cluster. A tighter cluster suggests that the observations within that category are more similar to each other, while a more dispersed cluster indicates greater variability within the category.

```
# ------
# Perform Random
# ------
# Forest classification on the original data
# ------
# Load required library
library(randomForest)
```

```
## randomForest 4.7-1.1
## Type rfNews() to see new features/changes/bug fixes.
##
## Attaching package: 'randomForest'
## The following object is masked from 'package:dplyr':
##
       combine
##
## The following object is masked from 'package:ggplot2':
##
##
       margin
# Convert the 'POSTED BY' column to a factor
train$POSTED BY <- as.factor(train$POSTED BY)</pre>
test$POSTED BY <- as.factor(test$POSTED BY)</pre>
# Fit a Random Forest model on the original train dataset
rf_model_orig <- randomForest(POSTED_BY ~ ., data = train)</pre>
# Predict class labels on the original test dataset
test_pred_orig_rf <- predict(rf_model_orig, newdata = test)</pre>
# Calculate accuracy for the original test dataset
accuracy orig rf <- mean(test pred orig rf == test$POSTED BY)
print(paste("accuracy (original, Random Forest) =", accuracy_orig_rf))
## [1] "accuracy (original, Random Forest) = 0.773552877270412"
# Create confusion matrix for the original test dataset
confusion_matrix_orig_rf <- table(Predicted = test_pred_orig_rf, Actual = test$POSTED</pre>
```

```
##
            Actual
## Predicted Builder Dealer Owner
                           24
##
     Builder
                   62
                   76
                         2934
                                522
##
     Dealer
                    2
##
     Owner
                          706
                              1561
```

confusion matrix orig rf

After fitting the Random Forest model on the training data, we predict the class labels for the test dataset and calculate the model's accuracy. The accuracy is a measure of how well the model correctly classifies the 'POSTED_BY' variable. In this case, the Random Forest classifier's accuracy on the original test dataset is approximately 77.66%.

Comparing the accuracy of the Random Forest classifier to the accuracy of the multinomial logistic regression model (if applicable) can provide insights into which model performs better on the given dataset. Additionally, it's essential to consider other performance metrics, such as precision, recall, and F1 score, to better understand the model's performance and make more informed decisions about model selection.

```
## Warning: glm.fit: algorithm did not converge
```

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
summary(glm1_pc)
```

```
##
## Call:
## glm(formula = POSTED BY ~ ., family = "binomial", data = binary train pc)
##
## Deviance Residuals:
##
      Min
              10 Median
                              3Q
                                     Max
   -8.49
                    0.00
##
           -8.49
                            0.00
                                    8.49
##
## Coefficients:
##
                Estimate Std. Error z value Pr(>|z|)
## (Intercept) 1.202e+15 4.436e+05 2.709e+09
                                                <2e-16 ***
## PC1
               6.406e+13 2.982e+05 2.148e+08
                                               <2e-16 ***
## PC2
               4.553e+14 3.655e+05 1.246e+09
                                               <2e-16 ***
## PC3
               6.841e+13 4.067e+05 1.682e+08
                                                 <2e-16 ***
## PC4
              -8.273e+13 4.357e+05 -1.899e+08 <2e-16 ***
## PC5
              -2.886e+14 5.093e+05 -5.666e+08 <2e-16 ***
## PC6
              -2.206e+14 4.978e+05 -4.432e+08
                                               <2e-16 ***
              -8.947e+14 5.439e+05 -1.645e+09 <2e-16 ***
## PC7
## PC8
              1.134e+15 6.623e+05 1.712e+09 <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance:
                      30320 on 23077 degrees of freedom
##
## Residual deviance: 655202 on 23069 degrees of freedom
## AIC: 655220
##
## Number of Fisher Scoring iterations: 25
```

```
# Predict probabilities on the filtered binary PCA-transformed test dataset
probs_pc <- predict(glm1_pc, newdata = binary_test_pc, type = "response")

# Set a threshold (0.5) to convert probabilities to class labels (1: Dealer, 0: Owner
)
pred_pc <- ifelse(probs_pc > 0.5, 1, 0)

# Calculate accuracy
acc_pc <- mean(pred_pc == as.numeric(as.character(binary_test_pc$POSTED_BY)))
print(paste("accuracy (PCA) =", acc_pc))</pre>
```

```
## [1] "accuracy (PCA) = 0.604764388801947"
```

```
# Create a confusion matrix
table(Predicted = pred_pc, Actual = binary_test_pc$POSTED_BY)
```

```
## Actual
## Predicted 0 1
## 0 127 313
## 1 1960 3351
```

In this section, we fit a logistic regression model on the PCA-transformed train dataset, which includes only 'Dealer' and 'Owner' instances. Logistic regression is a statistical method used to analyze the relationship between a binary dependent variable ('POSTED_BY' in this case) and one or more independent variables.

The binary_train_pc and binary_test_pc datasets were created by filtering out 'Builder' instances from the train_pc and test_pc datasets, respectively. Next, the 'POSTED_BY' variable was converted to a binary factor, with 'Dealer' coded as 1 and 'Owner' coded as 0.

After fitting the logistic regression model on the binary_train_pc dataset, we obtain the model coefficients, standard errors, z values, and p-values. Note that the algorithm did not converge, and fitted probabilities numerically 0 or 1 occurred. This may indicate that the model is not an ideal fit for the data, and further investigation or adjustments may be necessary.

All coefficients are highly statistically significant, as indicated by the extremely small p-values (p < 2e-16). However, it's essential to consider the algorithm's convergence issue and examine other performance metrics, such as accuracy, precision, recall, and F1 score, to assess the logistic regression model's quality on the PCA-transformed binary data.

```
# Perform LDA on the original numeric data
# ------
library(MASS)

## ## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
## ## select
```

```
# Fit an LDA model on the train dataset with only numeric columns
numeric_train <- train[, numeric_columns_train]
numeric_train$POSTED_BY <- train$POSTED_BY

# Perform LDA on the numeric_train dataset
lda1 <- lda(POSTED_BY ~ ., data = numeric_train)</pre>
```

```
## Warning in lda.default(x, grouping, ...): variables are collinear
```

```
##
           UNDER CONSTRUCTION
                                   RERA BHK_NO. SQUARE_FT READY_TO_MOVE
                   0.66804979 0.6639004 2.226141
                                                  3742.723
## Builder
                                                               0.3319502
                   0.23162644 0.4067820 2.453682 14898.021
## Dealer
                                                               0.7683736
## Owner
                   0.06342445 0.1462549 2.292273 41616.485
                                                               0.9365756
                RESALE LONGITUDE LATITUDE TARGET.PRICE_IN_LACS.
##
## Builder 0.002074689
                       19.98951 76.55979
                                                      211.42884
## Dealer 0.921856840 21.67930 76.54631
                                                      186.60404
## Owner
           0.997633416 20.76092 77.17793
                                                       62.45078
```

After fitting the LDA model on the numeric_train dataset, we received a warning that the variables are collinear. This means that there is a high degree of correlation between some of the predictors, which may affect the LDA model's stability and performance. It is advised to investigate these correlations and potentially remove or combine some predictors before refitting the LDA model.

Despite the collinearity issue, the LDA model provides group means for each of the numeric predictors, separated by the 'POSTED_BY' categories (Builder, Dealer, and Owner). These means can be used to understand the differences in the predictor variables' average values between the three groups.

Looking at the SQUARE_FT variable, we can see that properties listed by Owners have, on average, the largest square footage (41616.49), followed by Dealers (14898.02) and Builders (3742.72). Similarly, TARGET.PRICE_IN_LACS shows that properties listed by Builders have the highest average target price (211.43), followed by Dealers (186.60) and Owners (62.45).

```
# Predict class labels on the test dataset with only numeric columns
numeric_test <- test[, numeric_columns_test]
numeric_test$POSTED_BY <- test$POSTED_BY

lda_pred <- predict(lda1, newdata = numeric_test, type = "class")
lda_pred$class</pre>
```

```
##
    [1] Dealer Dealer Dealer
                                  Dealer Owner
                                                Dealer Dealer
                                                             Dealer
##
    [10] Dealer
              Dealer Dealer Dealer
                                  Dealer Dealer Builder Dealer Dealer
##
    [19] Dealer
              Dealer Owner
                            Owner
                                   Dealer
                                         Dealer
                                                Dealer Dealer
                                                             Dealer
    [28] Dealer Dealer Owner
                                   Dealer Dealer Dealer Dealer
##
##
               Dealer Dealer Owner
                                         Dealer Dealer Owner
    [37] Owner
##
    [46] Dealer Dealer Dealer Owner
                                         Dealer Dealer
                                                       Builder Dealer
##
    [55] Builder Dealer Dealer Dealer Dealer Dealer Owner
                                                             Owner
##
    [64] Dealer
              Dealer Owner
                            Dealer Dealer
                                         Dealer
                                                Owner
                                                       Owner
                                                             Dealer
##
    [73] Builder Dealer Dealer Owner
                                         Dealer Dealer Owner
                                                             Dealer
##
    [82] Dealer Owner
                     Builder Owner
                                   Dealer Dealer Dealer Dealer
               Dealer Dealer Dealer Dealer Owner
##
    [91] Owner
                                                       Builder Dealer
##
   [100] Dealer Dealer Dealer Owner
                                         Dealer Dealer Dealer
   [109] Dealer Dealer Dealer Dealer Dealer
##
                                                Dealer Dealer Dealer
##
   [118] Dealer
              Dealer Dealer Dealer
                                         Dealer
                                                Owner
                                                       Dealer Dealer
##
   [127] Builder Dealer Builder Dealer Owner
                                                Dealer Dealer Dealer
##
   [136] Dealer
              Dealer Dealer Dealer Dealer Dealer Dealer Dealer
```

```
##
    [145] Owner
                   Dealer
                            Dealer
                                     Dealer
                                             Builder Dealer
                                                               Dealer
                                                                        Owner
                                                                                 Dealer
##
    [154] Dealer
                                              Dealer
                   Dealer
                            Dealer
                                     Owner
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                 Dealer
##
    [163] Owner
                   Dealer
                            Dealer
                                     Dealer
                                              Dealer
                                                      Dealer
                                                               Builder Dealer
                                                                                 Dealer
##
    [172] Dealer
                                              Dealer
                   Dealer
                            Dealer
                                     Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
##
    [181] Owner
                   Dealer
                            Builder Owner
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Owner
##
    [190] Dealer
                            Dealer
                                     Owner
                                              Dealer
                                                      Dealer
                                                               Builder Dealer
                                                                                 Dealer
                   Dealer
##
    [199] Dealer
                                                                        Builder Dealer
                   Owner
                            Dealer
                                     Dealer
                                              Dealer
                                                      Dealer
                                                               Dealer
##
    [208] Owner
                   Dealer
                            Dealer
                                     Dealer
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
##
    [217] Owner
                   Dealer
                            Dealer
                                     Builder Dealer
                                                      Owner
                                                               Dealer
                                                                        Dealer
                                                                                 Builder
    [226] Dealer
##
                   Dealer
                            Dealer
                                     Dealer
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                 Dealer
##
                                              Dealer
                                                      Dealer
                                                               Dealer
    [235] Dealer
                   Dealer
                            Dealer
                                     Owner
                                                                        Dealer
                                                                                 Builder
##
    [244] Dealer
                            Dealer
                                     Builder Dealer
                                                      Dealer
                                                               Owner
                                                                        Dealer
                   Owner
                                                                                 Owner
##
    [253] Owner
                            Dealer
                                     Owner
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Builder
                   Owner
##
    [262] Owner
                   Dealer
                            Dealer
                                     Dealer
                                              Dealer
                                                      Builder Dealer
                                                                        Dealer
                                                                                 Owner
                                                               Dealer
                                                                                Dealer
##
    [271] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                              Owner
                                                      Dealer
                                                                        Dealer
##
    [280] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                              Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
                                                               Dealer
##
    [289] Owner
                   Owner
                            Dealer
                                     Dealer
                                              Dealer
                                                      Owner
                                                                        Owner
                                                                                 Dealer
##
    [298] Dealer
                                              Dealer
                                                               Dealer
                                                                        Dealer
                   Dealer
                            Dealer
                                     Dealer
                                                      Owner
                                                                                 Owner
##
    [307] Dealer
                   Dealer
                            Builder Dealer
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Builder Owner
##
    [316] Dealer
                            Dealer
                                              Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
                   Dealer
                                     Dealer
##
    [325] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                              Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
##
    [334] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                              Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
##
    [343] Owner
                   Owner
                            Owner
                                     Dealer
                                              Builder Dealer
                                                               Dealer
                                                                        Dealer
                                                                                 Dealer
##
    [352] Owner
                                              Dealer
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##
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## [1045] Dealer
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## [1621] Dealer
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## [1675] Builder Dealer
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## [1774] Owner
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## [1999] Dealer
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## [2008] Dealer
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## [2035] Owner
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## [2044] Dealer
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## [2062] Builder Dealer
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## [2089] Dealer
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##
   [2098] Dealer
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## [2107] Builder Dealer
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## [2116] Builder Dealer
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## [2125] Builder Dealer
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## [2134] Owner
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## [2143] Dealer
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## [2161] Owner
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## [2170] Dealer
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## [2179] Owner
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## [2188] Dealer
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## [2197] Dealer
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## [2206] Dealer
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## [2233] Dealer
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## [2242] Dealer
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## [2251] Owner
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## [2278] Builder Owner
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## [2287] Dealer
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## [2296] Dealer
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## [2305] Dealer
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## [2314] Dealer
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## [2323] Owner
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## [2332] Owner
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## [2341] Dealer
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## [2350] Dealer
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## [2359] Owner
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## [2368] Dealer
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## [2386] Builder Owner
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## [2395] Dealer
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## [2539] Builder Dealer
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## [2557] Dealer
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## [2584] Builder Dealer
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## [2728] Dealer
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## [2746] Owner
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## [2764] Dealer
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## [2800] Dealer
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##
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## [2845] Dealer
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## [2854] Dealer
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                                                                      Dealer
                                                                               Dealer
## [5536] Dealer
                   Dealer
                           Owner
                                    Dealer
                                             Owner
                                                     Owner
                                                              Dealer
                                                                      Dealer
                                                                               Owner
```

```
## [5545] Dealer Dealer Dealer
                                 Owner
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5554] Dealer
                Dealer
                         Owner
                                 Owner
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5563] Dealer
                 Dealer
                         Builder Dealer
                                         Builder Owner
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5572] Dealer
                Owner
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer Dealer
                                                                 Dealer
                                                                         Dealer
## [5581] Dealer
                 Builder Builder Dealer
                                         Dealer
                                                 Owner
                                                         Dealer
                                                                 Owner
                                                                         Dealer
## [5590] Dealer
                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Owner
                         Dealer
                                 Dealer
                                                                         Dealer
## [5599] Builder Dealer
                         Dealer
                                 Owner
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5608] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Builder Dealer
## [5617] Dealer
                 Owner
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Owner
## [5626] Dealer
                 Dealer Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Owner
                                                                 Dealer
                                                                         Dealer
                                                                 Dealer
## [5635] Dealer
                 Owner
                         Dealer
                                 Owner
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                         Dealer
## [5644] Builder Dealer Dealer
                                         Dealer
                                                 Dealer
                                                         Builder Dealer
                                 Owner
                                                                         Dealer
## [5653] Dealer
                 Dealer
                        Builder Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5662] Dealer
                         Owner
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
                 Owner
## [5671] Dealer
                 Dealer Dealer Dealer
                                         Owner
                                                 Builder Dealer
                                                                 Dealer
                                                                         Dealer
## [5680] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5689] Dealer
                 Owner
                         Dealer
                                 Dealer
                                         Owner
                                                 Owner
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5698] Dealer
                 Dealer Dealer
                                                                 Builder Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
## [5707] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Owner
                                                                 Dealer
                                                                         Dealer
## [5716] Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                                 Dealer
                 Dealer
                         Owner
                                                         Dealer
                                                                         Dealer
## [5725] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5734] Dealer
                 Builder Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Owner
                                                                 Dealer
                                                                         Dealer
## [5743] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Builder Dealer
                                                                         Dealer
## [5752] Owner
                                                         Dealer
                 Dealer Dealer
                                         Dealer
                                                 Dealer
                                                                 Dealer
                                                                         Dealer
## [5761] Dealer
                 Dealer
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Owner
                                                                         Builder
## [5770] Owner
                                         Dealer
                                                 Dealer
                 Owner
                         Dealer
                                 Owner
                                                         Owner
                                                                 Dealer
                                                                         Owner
## [5779] Dealer
                 Dealer Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Builder
## [5788] Dealer
                 Dealer
                        Dealer
                                 Dealer
                                         Dealer
                                                 Builder Owner
                                                                 Dealer
                                                                         Dealer
## [5797] Dealer
                 Dealer
                         Builder Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Owner
                                                                         Dealer
## [5806] Dealer
                 Dealer Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5815] Dealer
                 Dealer
                        Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                         Dealer
                                                                 Owner
## [5824] Dealer
                 Dealer Builder Dealer
                                         Dealer
                                                 Dealer
                                                         Owner
                                                                 Dealer
                                                                         Dealer
## [5833] Dealer
                 Dealer Dealer
                                 Owner
                                         Dealer
                                                 Dealer
                                                         Dealer
                                                                 Owner
                                                                         Dealer
## [5842] Dealer
                 Owner
                         Dealer
                                 Dealer
                                         Dealer
                                                 Dealer
                                                         Owner
                                                                 Owner
                                                                         Dealer
## [5851] Dealer
                         Dealer Owner
                                                 Dealer Dealer
                                                                 Builder Builder
                 Owner
                                         Dealer
## [5860] Dealer
                 Owner
                         Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5869] Dealer
                 Dealer Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
                                 Owner
## [5878] Dealer
                 Builder Dealer
                                 Dealer
                                         Owner
                                                 Dealer
                                                         Dealer
                                                                 Dealer
                                                                         Dealer
## [5887] Dealer Builder Owner
                                 Builder Dealer
## Levels: Builder Dealer Owner
```

```
# Calculate accuracy
mean(lda pred$class == numeric test$POSTED BY)
```

```
## [1] 0.643524
```

```
# Examine the structure of the lda_pred object
str(lda_pred)
```

```
## List of 3
##
    $ class
               : Factor w/ 3 levels "Builder", "Dealer", ..: 2 2 2 2 2 3 2 2 2 ...
    $ posterior: num [1:5891, 1:3] 1.46e-07 4.34e-07 1.40e-07 2.25e-07 2.66e-07 ...
##
     ..- attr(*, "dimnames")=List of 2
##
     ....$ : chr [1:5891] "4" "5" "8" "9" ...
##
     ....$ : chr [1:3] "Builder" "Dealer" "Owner"
##
               : num [1:5891, 1:2] 0.305 0.162 0.255 0.27 0.358 ...
##
##
     ..- attr(*, "dimnames")=List of 2
     .. ..$ : chr [1:5891] "4" "5" "8" "9" ...
##
     .. ..$ : chr [1:2] "LD1" "LD2"
##
```

```
# Prepare the numeric_test dataset for LDA predictions
numeric_test <- test[, numeric_columns_test]
numeric_test$POSTED_BY <- test$POSTED_BY

# Predict class labels on the numeric_test dataset using the LDA model
lda_pred <- predict(lda1, newdata = numeric_test, type = "class")
lda_pred$class</pre>
```

```
##
     [1] Dealer Dealer Dealer Dealer Owner
                                                   Dealer Dealer Dealer
    [10] Dealer Dealer Dealer Dealer Dealer Builder Dealer Dealer
##
                                     Dealer Dealer Dealer Dealer
##
    [19] Dealer Dealer Owner
                             Owner
##
    [28] Dealer
               Dealer Dealer Owner
                                     Dealer
                                           Dealer
                                                   Dealer
                                                          Dealer
                                                                 Dealer
##
    [37] Owner
               Dealer Dealer Owner
                                            Dealer Dealer Owner
##
    [46] Dealer
               Dealer Dealer Dealer
                                    Owner
                                            Dealer
                                                   Dealer
                                                          Builder Dealer
    [55] Builder Dealer Dealer Dealer Dealer Dealer
##
                                                          Owner
                                                                 Owner
##
    [64] Dealer
               Dealer
                      Owner
                              Dealer Dealer
                                           Dealer Owner
                                                          Owner
                                                                 Dealer
    [73] Builder Dealer Dealer Owner
##
                                            Dealer Dealer
                                                                 Dealer
                                                          Owner
##
                      Builder Owner
                                                          Dealer Dealer
    [82] Dealer
               Owner
                                     Dealer
                                           Dealer
                                                   Dealer
##
    [91] Owner
               Dealer Dealer Dealer Dealer Owner
                                                          Builder Dealer
##
   [100] Dealer Dealer Dealer Owner
                                            Dealer Dealer Dealer
                                                                 Dealer
##
   [109] Dealer
               Dealer Dealer Dealer
                                    Dealer
                                           Dealer
                                                   Dealer Dealer
                                                                 Dealer
   [118] Dealer
               Dealer Dealer Dealer Dealer Owner
##
                                                          Dealer
                                                                 Dealer
##
   [127] Builder Dealer Builder Dealer
                                    Dealer
                                           Owner
                                                   Dealer
                                                          Dealer
                                                                 Dealer
##
   [136] Dealer Dealer Dealer Dealer
                                           Dealer Dealer
                                                          Dealer Dealer
##
   [145] Owner
               Dealer Dealer Builder Dealer Dealer
                                                          Owner
                                                                 Dealer
   [154] Dealer Dealer Dealer Owner
##
                                     Dealer Dealer
                                                   Dealer
                                                          Owner
                                                                 Dealer
##
   [163] Owner
               Dealer Dealer Dealer
                                     Dealer Dealer
                                                   Builder Dealer
                                                                 Dealer
##
   [172] Dealer Dealer Dealer Dealer Dealer
                                                   Dealer Dealer
                                                                 Dealer
   [181] Owner
##
               Dealer
                      Builder Owner
                                     Dealer
                                           Dealer
                                                   Dealer
                                                          Dealer
                                                                 Owner
##
   [190] Dealer
               Dealer Dealer Owner
                                     Dealer Dealer Builder Dealer Dealer
##
   [199] Dealer
                      Dealer Dealer Dealer
                                                   Dealer Builder Dealer
               Owner
                                     Dealer
##
   [208] Owner
               Dealer Dealer Dealer
                                           Dealer Dealer
                                                          Dealer
                                                                 Dealer
##
   [217] Owner
               Dealer Dealer Builder Dealer Owner
                                                   Dealer Dealer Builder
               Dealer Dealer Dealer Dealer Dealer
##
   [226] Dealer
                                                          Owner
                                                                 Dealer
               Dealer Dealer Owner
##
   [235] Dealer
                                     Dealer Dealer Dealer Builder
##
   [244] Dealer
                      Dealer Builder Dealer
                                           Dealer
                                                          Dealer
               Owner
                                                   Owner
                                                                 Owner
##
   [253] Owner
                      Dealer
                             Owner
                                     Dealer
                                            Dealer
                                                   Dealer Dealer Builder
               Owner
```

```
##
    [262] Owner
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Builder Dealer
                                                                       Dealer
                                                                                Owner
##
    [271] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [280] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [289] Owner
                   Owner
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Owner
                                                                                Dealer
    [298] Dealer
##
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Dealer
                                                                                Owner
##
    [307] Dealer
                            Builder Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Builder Owner
                   Dealer
##
    [316] Dealer
                                                                        Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                                Dealer
##
    [325] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [334] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [343] Owner
                   Owner
                            Owner
                                     Dealer
                                             Builder Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [352] Owner
                                             Dealer
                                                               Dealer
                   Dealer
                            Owner
                                     Dealer
                                                      Dealer
                                                                        Dealer
                                                                                Dealer
##
    [361] Dealer
                   Dealer
                            Dealer
                                     Owner
                                             Dealer
                                                               Builder Dealer
                                                      Owner
                                                                                Dealer
##
    [370] Owner
                   Dealer
                            Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                     Dealer
                                                                                Dealer
##
    [379] Dealer
                   Dealer
                            Dealer
                                     Builder Dealer
                                                      Dealer
                                                               Owner
                                                                        Builder Dealer
##
    [388] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [397] Dealer
                   Dealer
                            Owner
                                     Dealer
                                             Owner
                                                      Owner
                                                               Dealer
                                                                        Owner
                                                                                Dealer
                                                               Dealer
##
    [406] Dealer
                   Dealer
                            Dealer
                                     Owner
                                             Owner
                                                      Dealer
                                                                        Dealer
                                                                                Dealer
##
    [415] Builder Dealer
                            Owner
                                             Dealer
                                                      Builder Dealer
                                                                                Dealer
                                     Dealer
                                                                        Dealer
##
    [424] Builder Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [433] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Builder Owner
                                                                        Dealer
                                                                                Dealer
##
    [442] Owner
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Builder Owner
##
    [451] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Builder
##
    [460] Dealer
                   Owner
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [469] Dealer
                            Dealer
                                                      Dealer
                                                               Builder Owner
                   Dealer
                                     Dealer
                                             Owner
                                                                                Dealer
##
    [478] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [487] Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                   Dealer
                            Dealer
                                     Owner
                                                                                Dealer
##
    [496] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Owner
                                                                        Dealer
                                                                                Dealer
##
    [505] Owner
                   Dealer
                            Dealer
                                     Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [514] Dealer
                   Owner
                            Dealer
                                     Builder Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [523] Dealer
                   Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [532] Owner
                   Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                      Builder Dealer
                                                                        Owner
                                                                                Dealer
##
    [541] Dealer
                   Builder Dealer
                                     Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [550] Dealer
                                             Dealer
                                                               Dealer
                   Dealer
                            Dealer
                                     Dealer
                                                      Dealer
                                                                        Dealer
                                                                                Dealer
##
    [559] Dealer
                   Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [568] Owner
                                             Dealer
                                                      Dealer
                                                               Builder Dealer
                   Dealer
                            Dealer
                                     Owner
                                                                                Dealer
##
    [577] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [586] Dealer
                   Builder Owner
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Builder Dealer
##
    [595] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Owner
##
    [604] Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                   Owner
                            Dealer
                                     Dealer
                                                                                Dealer
##
    [613] Dealer
                   Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Builder Dealer
##
    [622] Builder Dealer
                            Dealer
                                     Dealer
                                             Dealer
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                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [631] Dealer
                                             Dealer
                   Dealer
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                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [640] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [649] Builder Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [658] Dealer
                   Dealer
                            Dealer
                                     Owner
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [667] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Owner
                                                                       Builder Dealer
##
    [676] Dealer
                   Dealer
                            Dealer
                                     Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [685] Dealer
                                                      Dealer
                   Owner
                            Dealer
                                     Owner
                                             Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
    [694] Builder Owner
##
                            Dealer
                                     Dealer
                                             Dealer
                                                      Builder Dealer
                                                                        Dealer
                                                                                Dealer
##
    [703] Dealer Dealer
                                                      Dealer
                                                               Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                                       Dealer
                                                                                Dealer
```

```
##
    [712] Owner
                   Dealer
                            Owner
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [721] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [730] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [739] Builder Dealer
                                             Dealer
                            Owner
                                     Owner
                                                      Builder Dealer
                                                                        Dealer
                                                                                Dealer
    [748] Dealer
##
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [757] Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
                   Dealer
                            Dealer
                                     Dealer
##
    [766] Dealer
                                             Dealer
                   Owner
                            Owner
                                     Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Owner
##
    [775] Dealer
                   Owner
                            Dealer
                                     Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
##
    [784] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Dealer
                                                                                Dealer
                                                               Builder Dealer
##
    [793] Owner
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                                                Dealer
##
                                                      Dealer
    [802] Dealer
                                             Dealer
                                                               Dealer
                                                                                Builder
                   Dealer
                            Dealer
                                     Dealer
                                                                        Dealer
##
    [811] Owner
                            Owner
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
                   Owner
##
                                                               Dealer
    [820] Dealer
                            Dealer
                                     Dealer
                                             Builder Dealer
                                                                        Builder Owner
                   Owner
##
    [829] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [838] Owner
                   Dealer
                            Dealer
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [847] Dealer
                   Dealer
                            Owner
                                     Dealer
                                             Owner
                                                      Dealer
                                                               Dealer
                                                                        Builder Owner
##
    [856] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Owner
                                                                        Dealer
                                                                                Dealer
##
    [865] Owner
                   Dealer
                            Dealer
                                             Dealer
                                                      Dealer
                                                                        Dealer
                                                                                Dealer
                                     Dealer
                                                               Owner
##
    [874] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Owner
                                                               Dealer
                                                                       Dealer
                                                                                Builder
##
    [883] Dealer
                            Dealer
                                     Owner
                                             Dealer
                                                      Owner
                                                                        Dealer
                                                                                Dealer
                   Owner
                                                               Owner
##
    [892] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Owner
                                                                        Dealer
                                                                                Dealer
##
    [901] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Owner
                                                                        Dealer
                                                                                Builder
##
    [910] Dealer
                   Owner
                            Dealer
                                     Owner
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Dealer
                                                                                Dealer
##
    [919] Dealer
                   Builder Dealer
                                             Dealer
                                     Dealer
                                                      Owner
                                                               Owner
                                                                        Dealer
                                                                                Dealer
##
    [928] Dealer
                   Dealer
                            Dealer
                                     Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                        Owner
                                                                                Dealer
##
    [937] Dealer
                                             Dealer
                                                      Dealer
                                                               Dealer
                                                                       Builder Dealer
                   Dealer
                            Dealer
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##
    [946] Dealer
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                                             Builder Dealer
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##
    [955] Dealer
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                                                               Builder Dealer
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##
    [964] Dealer
                   Owner
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##
    [973] Dealer
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                            Builder Builder Dealer
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##
    [982] Dealer
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##
    [991] Builder Dealer
                                                               Builder Dealer
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##
   [1000] Dealer
                            Dealer
                                             Builder Dealer
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##
   [1009] Dealer
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##
   [1018] Dealer
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## [1027] Dealer
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                            Builder Dealer
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   [1036] Dealer
##
                   Dealer
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                                                               Builder Dealer
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##
   [1045] Dealer
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## [1054] Dealer
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                                                               Builder Dealer
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##
   [1063] Dealer
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                                                      Builder Owner
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## [1072] Dealer
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## [1081] Dealer
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## [1090] Dealer
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## [1099] Owner
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## [1108] Dealer
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## [1117] Dealer
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## [1126] Dealer
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## [1135] Dealer
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   [1144] Dealer
##
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## [1153] Dealer
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## [1162] Dealer
                   Owner
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                                    Dealer
                                            Builder Builder Owner
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## [1171] Dealer
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## [1180] Dealer
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## [1189] Owner
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## [1198] Dealer
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## [1207] Dealer
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## [1216] Dealer
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## [1225] Owner
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                                                     Builder Dealer
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## [1234] Dealer
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## [1243] Dealer
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                   Builder Dealer
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## [1252] Dealer
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## [1261] Owner
                   Builder Dealer
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## [1270] Builder Dealer
                           Dealer
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## [1279] Dealer
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## [1288] Dealer
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## [1297] Owner
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## [1306] Dealer
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##
  [1315] Dealer
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## [1324] Dealer
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## [1333] Owner
                   Builder Dealer
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## [1342] Dealer
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## [1351] Dealer
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## [1360] Dealer
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## [1369] Dealer
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## [1378] Dealer
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## [1387] Dealer
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## [1396] Owner
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## [1405] Dealer
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## [1414] Dealer
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## [1423] Dealer
                   Owner
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## [1432] Owner
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## [1441] Dealer
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## [1450] Dealer
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                   Builder Dealer
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## [1459] Dealer
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## [1468] Dealer
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## [1477] Dealer
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## [1486] Dealer
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## [1495] Dealer
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## [1504] Dealer
                   Builder Dealer
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## [1513] Dealer
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                                            Builder Dealer
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## [1522] Dealer
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## [1531] Dealer
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## [1540] Dealer
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## [1549] Dealer
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## [1558] Builder Builder Dealer
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## [1567] Dealer
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## [1576] Dealer
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## [1585] Dealer
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##
   [1594] Dealer
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## [1603] Dealer
                   Dealer
                           Owner
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## [1612] Owner
                   Dealer
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                                    Dealer
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                                                     Builder Dealer
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## [1621] Dealer
                   Dealer
                           Dealer
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## [1630] Dealer
                   Dealer
                           Builder Dealer
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## [1639] Dealer
                   Dealer
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## [1648] Owner
                   Dealer
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## [1657] Dealer
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##
   [1666] Dealer
                                             Dealer
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                                    Owner
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##
   [1675] Builder Dealer
                           Builder Dealer
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## [1684] Dealer
                   Dealer
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  [1693] Dealer
##
                   Dealer
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## [1702] Dealer
                   Builder Dealer
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## [1711] Dealer
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## [1720] Dealer
                   Builder Dealer
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## [1729] Dealer
                   Owner
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## [1738] Owner
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## [1747] Owner
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## [1756] Dealer
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                                                     Builder Owner
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##
  [1765] Dealer
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## [1774] Owner
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                                                                       Builder Dealer
## [1783] Dealer
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                                    Builder Owner
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## [1792] Dealer
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## [1801] Owner
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## [1810] Dealer
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## [1819] Dealer
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## [1828] Dealer
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## [1837] Dealer
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## [1846] Owner
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## [1855] Dealer
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  [1864] Dealer
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##
                   Owner
                           Dealer
                                    Builder Dealer
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## [1873] Dealer
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## [1882] Builder Dealer
                           Builder Owner
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## [1891] Builder Dealer
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## [1900] Dealer
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## [1909] Owner
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## [1918] Dealer
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## [1927] Dealer
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## [1936] Dealer
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                                    Builder Dealer
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## [1945] Dealer
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                           Builder Dealer
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## [1954] Owner
                   Builder Dealer
                                             Owner
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## [1963] Owner
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                           Dealer
                                    Builder Owner
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## [1972] Owner
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## [1981] Owner
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## [1990] Owner
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## [1999] Dealer
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## [2008] Dealer
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## [2017] Dealer
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## [2026] Dealer
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## [2035] Owner
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   [2044] Dealer
                   Builder Dealer
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## [2053] Dealer
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## [2062] Builder Dealer Dealer
                                    Owner
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## [2071] Dealer Dealer
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                                            Owner
                                                             Builder Dealer
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## [2080] Builder Dealer
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                                    Dealer
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## [2089] Dealer Builder Owner
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                                            Dealer
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                                                             Builder Dealer
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## [2098] Dealer
                  Owner
                           Owner
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## [2107] Builder Dealer
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  [2116] Builder Dealer
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## [2125] Builder Dealer
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## [2134] Owner
                   Owner
                           Dealer
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## [2143] Dealer
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## [2152] Dealer
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## [2161] Owner
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## [2170] Dealer
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## [2179] Owner
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## [2188] Dealer
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## [2197] Dealer
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## [2206] Dealer
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## [2215] Owner
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## [2224] Dealer
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## [2233] Dealer
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## [4843] Dealer
                   Dealer
                           Dealer
                                    Dealer
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                                                     Dealer
                                                              Builder Dealer
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## [4852] Dealer
                           Builder Dealer
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                                                     Builder Dealer
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                   Dealer
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## [4861] Dealer
                   Owner
                           Dealer
                                    Dealer
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## [4870] Dealer
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                                                              Builder Dealer
                   Dealer
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## [4879] Dealer
                   Dealer
                           Owner
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## [4888] Dealer
                   Dealer
                           Builder Dealer
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                                                     Builder Dealer
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## [4897] Dealer
                   Owner
                           Dealer
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## [4906] Owner
                   Dealer
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                                    Owner
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## [4915] Owner
                           Dealer
                                    Builder Dealer
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## [4924] Dealer
                   Dealer
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## [4933] Dealer
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## [4942] Owner
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## [4951] Dealer
                   Dealer
                           Builder Dealer
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## [4960] Dealer
                   Dealer
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## [4969] Owner
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                   Dealer
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## [4978] Dealer
                   Dealer
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                                             Builder Dealer
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## [4987] Dealer
                                    Dealer
                                             Dealer
                                                     Owner
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                   Dealer
                           Owner
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## [4996] Builder Owner
                           Dealer
                                    Dealer
                                             Dealer
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                                                              Dealer
                                                                      Dealer
                                                                               Owner
## [5005] Builder Dealer
                           Dealer
                                    Dealer
                                             Dealer
                                                     Dealer
                                                              Dealer
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## [5014] Dealer
                   Builder Dealer
                                                                      Builder Dealer
                                    Dealer
                                             Dealer
                                                     Dealer
                                                              Dealer
## [5023] Dealer
                   Builder Dealer
                                    Dealer
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## [5032] Dealer
                   Dealer
                           Dealer
                                    Owner
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## [5041] Dealer
                   Dealer
                           Dealer
                                    Owner
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## [5050] Dealer
                                             Builder Dealer
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                                    Dealer
                                                              Owner
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## [5059] Dealer
                   Owner
                           Dealer
                                    Dealer
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                                                              Builder Dealer
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## [5068] Dealer
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## [5077] Builder Dealer
                           Dealer
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## [5086] Dealer
                   Dealer
                           Owner
                                    Dealer
                                             Builder Dealer
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## [5095] Dealer
                   Dealer
                           Dealer
                                    Dealer
                                             Owner
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## [5104] Dealer
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## [5113] Dealer
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## [5122] Dealer
                   Dealer
                           Dealer
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                                                              Owner
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## [5131] Dealer
                                             Builder Dealer
                   Dealer
                           Dealer
                                    Dealer
                                                              Dealer
                                                                      Owner
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## [5140] Owner
                   Dealer
                           Owner
                                    Dealer
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## [5149] Owner
                   Dealer
                           Owner
                                    Owner
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## [5158] Dealer
                   Dealer
                           Dealer
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## [5167] Dealer
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## [5176] Dealer
                   Owner
                           Dealer
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## [5185] Dealer
                   Owner
                           Dealer
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## [5194] Dealer
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                                             Builder Owner
## [5203] Dealer
                   Dealer
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## [5212] Dealer
                  Dealer
                           Owner
                                    Owner
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## [5221] Dealer
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                   Dealer
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                                    Builder Dealer
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                                                             Dealer
                                                                      Dealer
## [5230] Dealer
                   Dealer
                           Dealer
                                    Owner
                                            Owner
                                                     Builder Dealer
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## [5239] Dealer
                  Builder Dealer
                                    Owner
                                            Builder Dealer
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## [5248] Dealer
                   Owner
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                                    Dealer
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## [5257] Dealer
                   Dealer
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## [5266] Dealer
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                                    Owner
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## [5275] Dealer
                   Dealer
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## [5284] Dealer
                   Owner
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## [5293] Dealer
                                                                      Builder Dealer
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                           Owner
                                    Dealer
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## [5302] Dealer
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## [5311] Dealer
                   Owner
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## [5320] Dealer
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## [5329] Dealer
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                                                     Builder Dealer
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## [5338] Dealer
                  Dealer
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                                            Owner
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## [5347] Dealer
                   Owner
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                                            Dealer
## [5356] Dealer
                   Dealer
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## [5365] Owner
                   Builder Owner
                                    Dealer
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## [5374] Dealer
                   Dealer
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## [5383] Dealer
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                                    Dealer
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                   Owner
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                                                             Owner
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## [5392] Owner
                   Owner
                           Builder Owner
                                            Dealer
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                                                                      Owner
                                                                              Builder
## [5401] Dealer
                   Dealer
                           Dealer
                                    Dealer
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## [5410] Dealer
                   Dealer
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## [5419] Owner
                                                             Builder Dealer
                   Dealer
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## [5428] Owner
                   Dealer
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## [5437] Dealer
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## [5446] Owner
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                                                     Builder Dealer
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## [5455] Owner
                   Dealer
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                                                             Builder Dealer
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## [5464] Dealer
                                                     Builder Dealer
                   Builder Owner
                                    Dealer
                                            Dealer
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## [5473] Dealer
                   Builder Dealer
                                    Builder Dealer
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## [5482] Dealer
                   Dealer
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                                            Builder Owner
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## [5491] Dealer
                                                             Builder Dealer
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## [5500] Owner
                                            Dealer
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                                    Dealer
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## [5509] Dealer
                   Dealer
                           Builder Dealer
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                                                     Builder Owner
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## [5518] Dealer
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## [5527] Dealer
                   Dealer
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## [5536] Dealer
                   Dealer
                           Owner
                                    Dealer
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                                                     Owner
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## [5545] Dealer
                   Dealer
                           Dealer
                                    Owner
                                            Dealer
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## [5554] Dealer
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                   Dealer
                           Owner
                                    Owner
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## [5563] Dealer
                   Dealer
                           Builder Dealer
                                            Builder Owner
                                                             Dealer
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## [5572] Dealer
                   Owner
                           Dealer
                                    Dealer
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                                                     Dealer
                                                             Dealer
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## [5581] Dealer
                   Builder Builder Dealer
                                            Dealer
                                                     Owner
                                                             Dealer
                                                                      Owner
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## [5590] Dealer
                   Dealer
                           Dealer
                                    Dealer
                                            Owner
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                                                             Dealer
                                                                      Owner
                                                                              Dealer
## [5599] Builder Dealer
                           Dealer
                                    Owner
                                            Dealer
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                                                             Dealer
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## [5608] Dealer
                   Dealer
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                                                             Dealer
                                                                      Builder Dealer
## [5617] Dealer
                  Owner
                           Dealer
                                    Dealer
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## [5626] Dealer
                   Dealer
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                                                             Owner
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## [5635] Dealer
                   Owner
                           Dealer
                                    Owner
                                            Dealer
                                                     Dealer
                                                             Dealer
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                                                                              Dealer
## [5644] Builder Dealer
                           Dealer
                                    Owner
                                            Dealer
                                                     Dealer
                                                             Builder Dealer
                                                                              Dealer
## [5653] Dealer Dealer Builder Dealer
                                            Dealer
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```

```
## [5662] Dealer Owner
                      Owner
                            Dealer Dealer Dealer Dealer Dealer
## [5671] Dealer
              Dealer Dealer Owner
                                          Builder Dealer Dealer Dealer
## [5680] Dealer
               Dealer Dealer
                            Dealer
                                   Dealer
                                          Dealer Dealer
                                                        Dealer
                                                               Dealer
## [5689] Dealer Owner
                      Dealer Dealer Owner
                                          Owner
                                                 Dealer Dealer Dealer
## [5698] Dealer
               Dealer Dealer Owner
                                          Dealer Dealer Builder Dealer
               Dealer Dealer Owner
## [5707] Dealer
                                          Dealer Owner
                                                        Dealer Dealer
## [5716] Dealer
                                          Dealer Dealer Dealer
              Dealer Owner
                             Dealer Owner
                                                               Dealer
## [5725] Dealer
               Dealer
                      Dealer Dealer Owner
                                          Dealer Dealer Dealer
## [5734] Dealer
               Builder Dealer Dealer Dealer
                                          Dealer Owner
                                                        Dealer Dealer
## [5743] Dealer
              Dealer Dealer Dealer Dealer Builder Dealer Dealer
## [5752] Owner
               Dealer Dealer Dealer Dealer Dealer Dealer Dealer
## [5761] Dealer Dealer Dealer Dealer
                                   Dealer
                                          Dealer Dealer
                                                               Builder
                                                        Owner
## [5770] Owner
               Owner
                      Dealer Owner
                                   Dealer Dealer Owner
                                                        Dealer Owner
## [5779] Dealer Dealer Dealer Dealer
                                          Dealer Dealer Builder
## [5788] Dealer Dealer Dealer Dealer Builder Owner
                                                        Dealer Dealer
## [5797] Dealer
              Dealer Builder Dealer Dealer Dealer
                                                        Owner
                                                               Dealer
                                          Dealer Dealer
                                                        Dealer Dealer
## [5806] Dealer
               Dealer Dealer Owner
## [5815] Dealer
              Dealer Dealer Dealer Dealer Dealer
                                                               Dealer
                                                        Owner
## [5824] Dealer
              Dealer Builder Dealer Dealer Owner
                                                        Dealer Dealer
## [5833] Dealer
                                   Dealer Dealer Owner
              Dealer Dealer Owner
                                                               Dealer
## [5842] Dealer Owner Dealer Dealer Dealer Owner
                                                        Owner
                                                               Dealer
## [5851] Dealer
                                   Dealer Dealer Builder Builder
              Owner Dealer Owner
## [5860] Dealer Owner Dealer Dealer Owner
                                          Dealer Dealer Dealer
## [5869] Dealer Dealer Dealer Owner
                                          Dealer Dealer Dealer
                                   Owner
## [5878] Dealer Builder Dealer Dealer Owner
                                          Dealer Dealer Dealer
## [5887] Dealer Builder Owner
                            Builder Dealer
## Levels: Builder Dealer Owner
```

```
# Calculate the accuracy of the LDA predictions
mean(lda_pred$class == test$POSTED_BY)
```

```
## [1] 0.643524
```

Display the structure of the lda_pred object
str(lda_pred)

```
## List of 3
              : Factor w/ 3 levels "Builder", "Dealer", ...: 2 2 2 2 2 3 2 2 2 2 ...
##
   $ class
    $ posterior: num [1:5891, 1:3] 1.46e-07 4.34e-07 1.40e-07 2.25e-07 2.66e-07 ...
##
##
     ..- attr(*, "dimnames")=List of 2
     .. ..$ : chr [1:5891] "4" "5" "8" "9"
##
     .. ..$ : chr [1:3] "Builder" "Dealer" "Owner"
##
               : num [1:5891, 1:2] 0.305 0.162 0.255 0.27 0.358 ...
##
##
     ..- attr(*, "dimnames")=List of 2
     ....$ : chr [1:5891] "4" "5" "8" "9" ...
##
##
     .. ..$ : chr [1:2] "LD1" "LD2"
```

We then calculate the accuracy of the LDA model by comparing the predicted class labels with the actual class labels (numeric_test\$POSTED_BY). The mean function calculates the proportion of correct predictions, which results in an accuracy of 0.643524 or 64.35%.

The structure of the Ida_pred object is also examined. It contains three elements: 1. class: The predicted class labels (Factor with 3 levels: "Builder", "Dealer", "Owner"). 2. posterior: The posterior probabilities for each class, given the input data. 3. x: The transformed data in the lower-dimensional LDA space (2 dimensions in this case, LD1 and LD2).

Overall, the LDA model was able to achieve a moderate accuracy of 64.35% on the test dataset. However, it is important to note that the model was previously fitted with collinear variables, which may affect its stability and performance. Maybe addressing the collinearity issue by removing or combining some predictors could potentially improve the model's performance.

```
# -----
# Plot LDA results
# ------
# Plot the LDA predictions using the first two linear discriminants
plot(lda_pred$x[, 1], lda_pred$x[, 2], pch = c(23, 21, 22)[unclass(lda_pred$class)],
bg = c("red", "green", "blue"))
```

