Challenge B

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# CHALLENGE B

# TASB 1B

# QUESTION 1:

We choose to use Random Forest. We read that it is a very efficient algorithm of machine learning to check links between the different variables. It classifies the explicative variables regarding their links to the dependent variable. It produces a set of classifications on a random fraction of the data, then he makes them vote and deduces the order and the importance of the different variables.

This is the link to the website we were inpired by. <http://mehdikhaneboubi.free.fr/random_forest_r.html#importation-des-donnees>

# QUESTION 2:

From the previous challenge, we take the datasets. We use the same code in order to clean the data (removing the missing values and changing the variables for factor ones). We choose to take Rossi’s code in order to be sure there will be no mistake. We also load all the libraries we will use.

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.4.2

## Loading tidyverse: ggplot2  
## Loading tidyverse: tibble  
## Loading tidyverse: tidyr  
## Loading tidyverse: readr  
## Loading tidyverse: purrr  
## Loading tidyverse: dplyr

## Warning: package 'ggplot2' was built under R version 3.4.2

## Warning: package 'tibble' was built under R version 3.4.2

## Warning: package 'tidyr' was built under R version 3.4.2

## Warning: package 'readr' was built under R version 3.4.3

## Warning: package 'purrr' was built under R version 3.4.2

## Warning: package 'dplyr' was built under R version 3.4.2

## Conflicts with tidy packages ----------------------------------------------

## filter(): dplyr, stats  
## lag(): dplyr, stats

library(knitr)

## Warning: package 'knitr' was built under R version 3.4.2

library(randomForest)

## Warning: package 'randomForest' was built under R version 3.4.2

## randomForest 4.6-12

## 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

train <- read.csv(file.choose("train.csv"),header=T)  
attach(train)  
  
remove.vars <- train %>% summarise\_all(.funs = funs(sum(is.na(.)))) %>% gather(key = "feature", value = "missing.observations") %>% filter(missing.observations > 100) %>% select(feature) %>% unlist

## Warning: package 'bindrcpp' was built under R version 3.4.2

train <- train %>% select(- one\_of(remove.vars))  
  
train <- train %>% filter(is.na(GarageType) == FALSE, is.na(MasVnrType) == FALSE, is.na(BsmtFinType2) == FALSE, is.na(BsmtExposure) == FALSE, is.na(Electrical) == FALSE)  
  
#We finally remove the Id column.  
train <- train[,-1]

Then, we chose to use the Random Forest method. We will here follw a process we found on the Internet.

fit <- randomForest(train$SalePrice~., data = train)  
print(fit)

##   
## Call:  
## randomForest(formula = train$SalePrice ~ ., data = train)   
## Type of random forest: regression  
## Number of trees: 500  
## No. of variables tried at each split: 24  
##   
## Mean of squared residuals: 793451201  
## % Var explained: 87.25

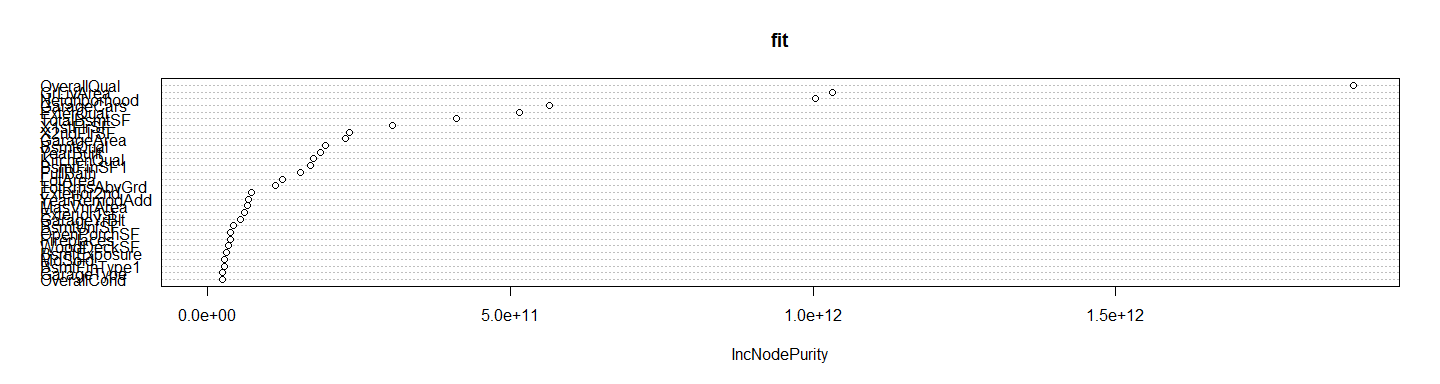
Then, we ask for the confusion matrix. In lines, we have the observations, in columns the data the model predicts.

table(train$SalePrice, fit$predicted)

##   
## 85916.6337099813 89298.6320788531 89751.5085249045  
## 35311 1 0 0  
## 40000 0 0 0  
## 55993 0 0 0  
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## 91914.2665725049 92274.9510357818 93623.8319366855  
## 35311 0 0 0  
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## 94108.8931159423 94347.4949897753 94429.4279891307  
## 35311 0 0 0  
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## 95108.1081521741 95425.7470370372 95541.0978557508  
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## 97087.600662879 97775.6270618559 98045.2699825482 98087.581801802  
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## 98368.7261261264 98594.7893939396 98641.0688144332  
## 35311 0 0 0  
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## 98796.4437373739 100188.761111111 100985.652367942  
## 35311 0 0 0  
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## 101047.802209945 101185.10849835 101220.051029963  
## 35311 0 0 0  
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## 35311 0 0 0  
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## 107400 0  
## 107500 0  
## 107900 0  
## 108000 0  
## 108480 0  
## 108500 0  
## 108959 0  
## 109000 0  
## 109008 0  
## 109500 0  
## 109900 0  
## 110000 0  
## 110500 0  
## 111000 0  
## [ reached getOption("max.print") -- omitted 546 rows ]

We draw a graph to classify the explanatory variables according to their weight on the prediction.

varImpPlot(fit)



The command below give us the importance of each variable in a decreasing way. We can see that the explanatory variables that matter the most are : utilities, street, heating, miscval, garagecond…

fit$importance

## IncNodePurity  
## MSSubClass 1.793375e+10  
## MSZoning 1.940504e+10  
## LotArea 1.242822e+11  
## Street 1.346969e+08  
## LotShape 1.072973e+10  
## LandContour 1.633205e+10  
## Utilities 2.180470e+07  
## LotConfig 1.410761e+10  
## LandSlope 4.409766e+09  
## Neighborhood 1.004202e+12  
## Condition1 9.822485e+09  
## Condition2 1.439102e+09  
## BldgType 4.341101e+09  
## HouseStyle 1.810717e+10  
## OverallQual 1.893262e+12  
## OverallCond 2.370146e+10  
## YearBuilt 1.860391e+11  
## YearRemodAdd 6.763978e+10  
## RoofStyle 9.023743e+09  
## RoofMatl 6.438122e+09  
## Exterior1st 6.056698e+10  
## Exterior2nd 7.193939e+10  
## MasVnrType 1.203714e+10  
## MasVnrArea 6.500261e+10  
## ExterQual 5.148428e+11  
## ExterCond 4.937487e+09  
## Foundation 1.178886e+10  
## BsmtQual 1.940945e+11  
## BsmtCond 3.392505e+09  
## BsmtExposure 3.033229e+10  
## BsmtFinType1 2.739411e+10  
## BsmtFinSF1 1.705076e+11  
## BsmtFinType2 4.780334e+09  
## BsmtFinSF2 4.970765e+09  
## BsmtUnfSF 4.183074e+10  
## TotalBsmtSF 4.112506e+11  
## Heating 1.458141e+09  
## HeatingQC 9.032204e+09  
## CentralAir 7.308470e+09  
## Electrical 1.948401e+09  
## X1stFlrSF 3.054998e+11  
## X2ndFlrSF 2.338907e+11  
## LowQualFinSF 2.464931e+09  
## GrLivArea 1.032600e+12  
## BsmtFullBath 1.247329e+10  
## BsmtHalfBath 3.870049e+09  
## FullBath 1.530104e+11  
## HalfBath 8.551282e+09  
## BedroomAbvGr 2.090981e+10  
## KitchenAbvGr 3.072673e+09  
## KitchenQual 1.744413e+11  
## TotRmsAbvGrd 1.112470e+11  
## Functional 5.512276e+09  
## Fireplaces 3.701913e+10  
## GarageType 2.433114e+10  
## GarageYrBlt 5.443057e+10  
## GarageFinish 2.281059e+10  
## GarageCars 5.652250e+11  
## GarageArea 2.274072e+11  
## GarageQual 3.510994e+09  
## GarageCond 1.182375e+09  
## PavedDrive 1.893590e+09  
## WoodDeckSF 3.367422e+10  
## OpenPorchSF 3.716685e+10  
## EnclosedPorch 5.770595e+09  
## X3SsnPorch 1.802269e+09  
## ScreenPorch 9.151725e+09  
## PoolArea 5.603322e+09  
## MiscVal 9.095148e+08  
## MoSold 2.771008e+10  
## YrSold 1.080650e+10  
## SaleType 1.000380e+10  
## SaleCondition 1.645468e+10

fit$importance[order(fit$importance[, 1], decreasing = TRUE), ]

## OverallQual GrLivArea Neighborhood GarageCars ExterQual   
## 1.893262e+12 1.032600e+12 1.004202e+12 5.652250e+11 5.148428e+11   
## TotalBsmtSF X1stFlrSF X2ndFlrSF GarageArea BsmtQual   
## 4.112506e+11 3.054998e+11 2.338907e+11 2.274072e+11 1.940945e+11   
## YearBuilt KitchenQual BsmtFinSF1 FullBath LotArea   
## 1.860391e+11 1.744413e+11 1.705076e+11 1.530104e+11 1.242822e+11   
## TotRmsAbvGrd Exterior2nd YearRemodAdd MasVnrArea Exterior1st   
## 1.112470e+11 7.193939e+10 6.763978e+10 6.500261e+10 6.056698e+10   
## GarageYrBlt BsmtUnfSF OpenPorchSF Fireplaces WoodDeckSF   
## 5.443057e+10 4.183074e+10 3.716685e+10 3.701913e+10 3.367422e+10   
## BsmtExposure MoSold BsmtFinType1 GarageType OverallCond   
## 3.033229e+10 2.771008e+10 2.739411e+10 2.433114e+10 2.370146e+10   
## GarageFinish BedroomAbvGr MSZoning HouseStyle MSSubClass   
## 2.281059e+10 2.090981e+10 1.940504e+10 1.810717e+10 1.793375e+10   
## SaleCondition LandContour LotConfig BsmtFullBath MasVnrType   
## 1.645468e+10 1.633205e+10 1.410761e+10 1.247329e+10 1.203714e+10   
## Foundation YrSold LotShape SaleType Condition1   
## 1.178886e+10 1.080650e+10 1.072973e+10 1.000380e+10 9.822485e+09   
## ScreenPorch HeatingQC RoofStyle HalfBath CentralAir   
## 9.151725e+09 9.032204e+09 9.023743e+09 8.551282e+09 7.308470e+09   
## RoofMatl EnclosedPorch PoolArea Functional BsmtFinSF2   
## 6.438122e+09 5.770595e+09 5.603322e+09 5.512276e+09 4.970765e+09   
## ExterCond BsmtFinType2 LandSlope BldgType BsmtHalfBath   
## 4.937487e+09 4.780334e+09 4.409766e+09 4.341101e+09 3.870049e+09   
## GarageQual BsmtCond KitchenAbvGr LowQualFinSF Electrical   
## 3.510994e+09 3.392505e+09 3.072673e+09 2.464931e+09 1.948401e+09   
## PavedDrive X3SsnPorch Heating Condition2 GarageCond   
## 1.893590e+09 1.802269e+09 1.458141e+09 1.439102e+09 1.182375e+09   
## MiscVal Street Utilities   
## 9.095148e+08 1.346969e+08 2.180470e+07

# QUESTION 3:

We have to make predictions on the test data and compare them with the prediction we did for the last challenge. Once more, we use Rossi’s code to get the first prediction of our data.

First, the code for the prediction by the linear regression:

test <- read.csv(file.choose("test.csv"),header=T)  
attach(test)

## The following objects are masked from train:  
##   
## Alley, BedroomAbvGr, BldgType, BsmtCond, BsmtExposure,  
## BsmtFinSF1, BsmtFinSF2, BsmtFinType1, BsmtFinType2,  
## BsmtFullBath, BsmtHalfBath, BsmtQual, BsmtUnfSF, CentralAir,  
## Condition1, Condition2, Electrical, EnclosedPorch, ExterCond,  
## Exterior1st, Exterior2nd, ExterQual, Fence, FireplaceQu,  
## Fireplaces, Foundation, FullBath, Functional, GarageArea,  
## GarageCars, GarageCond, GarageFinish, GarageQual, GarageType,  
## GarageYrBlt, GrLivArea, HalfBath, Heating, HeatingQC,  
## HouseStyle, Id, KitchenAbvGr, KitchenQual, LandContour,  
## LandSlope, LotArea, LotConfig, LotFrontage, LotShape,  
## LowQualFinSF, MasVnrArea, MasVnrType, MiscFeature, MiscVal,  
## MoSold, MSSubClass, MSZoning, Neighborhood, OpenPorchSF,  
## OverallCond, OverallQual, PavedDrive, PoolArea, PoolQC,  
## RoofMatl, RoofStyle, SaleCondition, SaleType, ScreenPorch,  
## Street, TotalBsmtSF, TotRmsAbvGrd, Utilities, WoodDeckSF,  
## X1stFlrSF, X2ndFlrSF, X3SsnPorch, YearBuilt, YearRemodAdd,  
## YrSold

lm\_model <- lm(SalePrice ~ MSZoning + LotArea + Neighborhood + YearBuilt + OverallQual, data = train)  
summary(lm\_model)

##   
## Call:  
## lm(formula = SalePrice ~ MSZoning + LotArea + Neighborhood +   
## YearBuilt + OverallQual, data = train)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -217205 -22277 -1857 16999 342090   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -7.800e+05 1.820e+05 -4.286 1.95e-05 \*\*\*  
## MSZoningFV 2.296e+03 2.059e+04 0.111 0.911242   
## MSZoningRH -3.057e+03 2.193e+04 -0.139 0.889180   
## MSZoningRL 2.271e+04 1.769e+04 1.284 0.199468   
## MSZoningRM 3.500e+03 1.673e+04 0.209 0.834332   
## LotArea 1.221e+00 1.239e-01 9.859 < 2e-16 \*\*\*  
## NeighborhoodBlueste 1.107e+04 3.195e+04 0.346 0.729084   
## NeighborhoodBrDale -7.151e+03 1.637e+04 -0.437 0.662347   
## NeighborhoodBrkSide 3.049e+04 1.420e+04 2.147 0.032005 \*   
## NeighborhoodClearCr 3.779e+04 1.384e+04 2.731 0.006405 \*\*   
## NeighborhoodCollgCr 1.636e+04 1.078e+04 1.518 0.129350   
## NeighborhoodCrawfor 5.981e+04 1.301e+04 4.596 4.73e-06 \*\*\*  
## NeighborhoodEdwards 1.212e+04 1.208e+04 1.003 0.316055   
## NeighborhoodGilbert 9.123e+03 1.129e+04 0.808 0.419164   
## NeighborhoodIDOTRR 3.084e+04 1.640e+04 1.881 0.060220 .   
## NeighborhoodMeadowV 2.584e+04 1.737e+04 1.488 0.137089   
## NeighborhoodMitchel 1.815e+04 1.235e+04 1.470 0.141705   
## NeighborhoodNAmes 1.809e+04 1.132e+04 1.598 0.110363   
## NeighborhoodNoRidge 1.045e+05 1.221e+04 8.558 < 2e-16 \*\*\*  
## NeighborhoodNPkVill -3.695e+03 1.745e+04 -0.212 0.832348   
## NeighborhoodNridgHt 7.421e+04 1.135e+04 6.536 9.05e-11 \*\*\*  
## NeighborhoodNWAmes 2.151e+04 1.159e+04 1.857 0.063553 .   
## NeighborhoodOldTown 3.344e+04 1.441e+04 2.321 0.020423 \*   
## NeighborhoodSawyer 2.034e+04 1.202e+04 1.692 0.090816 .   
## NeighborhoodSawyerW 2.118e+04 1.182e+04 1.792 0.073427 .   
## NeighborhoodSomerst 3.461e+04 1.371e+04 2.525 0.011704 \*   
## NeighborhoodStoneBr 7.518e+04 1.326e+04 5.668 1.78e-08 \*\*\*  
## NeighborhoodSWISU 2.592e+04 1.538e+04 1.685 0.092206 .   
## NeighborhoodTimber 2.624e+04 1.254e+04 2.092 0.036620 \*   
## NeighborhoodVeenker 5.095e+04 1.636e+04 3.114 0.001886 \*\*   
## YearBuilt 3.539e+02 9.076e+01 3.899 0.000101 \*\*\*  
## OverallQual 3.337e+04 1.295e+03 25.763 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 41850 on 1306 degrees of freedom  
## Multiple R-squared: 0.7253, Adjusted R-squared: 0.7188   
## F-statistic: 111.2 on 31 and 1306 DF, p-value: < 2.2e-16

predict1 <- data.frame(Id = test$Id, SalePrice\_predict = predict(lm\_model, test, type="response"))  
predict1

## Id SalePrice\_predict  
## 1 1461 110073.18  
## 2 1462 171382.60  
## 3 1463 142313.97  
## 4 1464 171336.47  
## 5 1465 295944.76  
## 6 1466 169593.83  
## 7 1467 166772.82  
## 8 1468 169411.64  
## 9 1469 202120.28  
## 10 1470 101717.42  
## 11 1471 183228.07  
## 12 1472 116161.61  
## 13 1473 82788.41  
## 14 1474 140977.25  
## 15 1475 174350.45  
## 16 1476 343954.35  
## 17 1477 310611.68  
## 18 1478 340904.59  
## 19 1479 310709.32  
## 20 1480 343592.11  
## 21 1481 309071.14  
## 22 1482 302526.05  
## 23 1483 184214.72  
## 24 1484 190143.80  
## 25 1485 210890.38  
## 26 1486 205121.99  
## 27 1487 342569.10  
## 28 1488 264839.00  
## 29 1489 212744.86  
## 30 1490 179452.19  
## 31 1491 221264.62  
## 32 1492 96433.69  
## 33 1493 180698.70  
## 34 1494 335560.04  
## 35 1495 332752.46  
## 36 1496 205625.88  
## 37 1497 204013.71  
## 38 1498 203647.31  
## 39 1499 202827.79  
## 40 1500 169808.49  
## 41 1501 168571.48  
## 42 1502 202301.68  
## 43 1503 250915.20  
## 44 1504 240690.56  
## 45 1505 208783.62  
## 46 1506 173341.28  
## 47 1507 182951.89  
## 48 1508 187470.26  
## 49 1509 173711.42  
## 50 1510 135140.62  
## 51 1511 135507.03  
## 52 1512 135592.23  
## 53 1513 169027.36  
## 54 1514 138195.12  
## 55 1515 130337.44  
## 56 1516 171975.09  
## 57 1517 170687.81  
## 58 1518 130681.36  
## 59 1519 213267.87  
## 60 1520 130770.23  
## 61 1521 134037.32  
## 62 1522 166564.13  
## 63 1523 96740.81  
## 64 1524 131834.80  
## 65 1525 132829.33  
## 66 1526 137178.89  
## 67 1527 83409.19  
## 68 1528 160267.60  
## 69 1529 130617.28  
## 70 1530 167647.53  
## 71 1531 68691.76  
## 72 1532 108758.29  
## 73 1533 123464.85  
## 74 1534 151451.27  
## 75 1535 127663.95  
## 76 1536 113343.20  
## 77 1537 16015.95  
## 78 1538 208047.00  
## 79 1539 203775.17  
## 80 1540 110788.58  
## 81 1541 150258.94  
## 82 1542 118063.83  
## 83 1543 196509.38  
## 84 1544 74829.36  
## 85 1545 147751.73  
## 86 1546 148105.64  
## 87 1547 115879.92  
## 88 1548 150936.86  
## 89 1549 113609.95  
## 90 1550 111486.53  
## 91 1551 145190.09  
## 92 1552 78023.39  
## 93 1553 149577.85  
## 94 1554 140400.85  
## 95 1555 159280.71  
## 96 1556 138760.78  
## 97 1557 125290.45  
## 98 1558 162749.20  
## 99 1559 62160.40  
## 100 1560 93048.85  
## 101 1561 105811.63  
## 102 1562 135199.88  
## 103 1563 135946.77  
## 104 1564 138987.49  
## 105 1565 140093.22  
## 106 1566 238258.57  
## 107 1567 89806.42  
## 108 1568 201599.68  
## 109 1569 63508.12  
## 110 1570 159177.39  
## 111 1571 88769.04  
## 112 1572 124833.30  
## 113 1573 220766.20  
## 114 1574 130418.07  
## 115 1575 215321.56  
## 116 1576 184537.11  
## 117 1577 212999.45  
## 118 1578 153912.98  
## 119 1579 145872.34  
## 120 1580 210813.31  
## 121 1581 144198.43  
## 122 1582 132951.32  
## 123 1583 247594.77  
## 124 1584 210859.72  
## 125 1585 154365.59  
## 126 1586 53988.21  
## 127 1587 123999.12  
## 128 1588 130421.81  
## 129 1589 92105.46  
## 130 1590 161705.73  
## 131 1591 89071.23  
## 132 1592 122311.47  
## 133 1593 164702.41  
## 134 1594 81255.07  
## 135 1595 130878.39  
## 136 1596 235803.17  
## 137 1597 178529.35  
## 138 1598 265787.78  
## 139 1599 210218.62  
## 140 1600 210218.62  
## 141 1601 17946.72  
## 142 1602 145565.72  
## 143 1603 65949.15  
## 144 1604 264150.38  
## 145 1605 248422.40  
## 146 1606 172497.53  
## 147 1607 175978.64  
## 148 1608 227709.27  
## 149 1609 225506.91  
## 150 1610 157697.58  
## 151 1611 141814.72  
## 152 1612 149283.04  
## 153 1613 149664.31  
## 154 1614 117360.24  
## 155 1615 81804.14  
## 156 1616 82321.99  
## 157 1617 83017.58  
## 158 1618 133743.60  
## 159 1619 145591.77  
## 160 1620 139610.57  
## 161 1621 145123.21  
## 162 1622 137421.63  
## 163 1623 245592.48  
## 164 1624 182240.47  
## 165 1625 169137.13  
## 166 1626 172077.85  
## 167 1627 171228.06  
## 168 1628 242067.89  
## 169 1629 202074.59  
## 170 1630 302989.68  
## 171 1631 300968.86  
## 172 1632 300680.26  
## 173 1633 203421.15  
## 174 1634 168309.99  
## 175 1635 168485.78  
## 176 1636 166235.14  
## 177 1637 132878.73  
## 178 1638 214019.83  
## 179 1639 177810.67  
## 180 1640 213674.84  
## 181 1641 178006.09  
## 182 1642 207916.18  
## 183 1643 240838.34  
## 184 1644 242730.85  
## 185 1645 141476.58  
## 186 1646 175432.65  
## 187 1647 210271.17  
## 188 1648 134394.46  
## 189 1649 135578.87  
## 190 1650 100053.96  
## 191 1651 102804.13  
## 192 1652 116869.42  
## 193 1653 116515.51  
## 194 1654 141365.35  
## 195 1655 174350.45  
## 196 1656 141769.32  
## 197 1657 142141.55  
## 198 1658 142141.55  
## 199 1659 174489.39  
## 200 1660 136496.31  
## 201 1661 344955.20  
## 202 1662 343333.91  
## 203 1663 342980.01  
## 204 1664 377639.57  
## 205 1665 342037.13  
## 206 1666 313711.66  
## 207 1667 322630.25  
## 208 1668 340558.09  
## 209 1669 340467.06  
## 210 1670 344401.65  
## 211 1671 275108.96  
## 212 1672 344781.70  
## 213 1673 308951.16  
## 214 1674 305611.15  
## 215 1675 235147.28  
## 216 1676 232970.85  
## 217 1677 273384.50  
## 218 1678 377973.85  
## 219 1679 311393.84  
## 220 1680 336922.16  
## 221 1681 335800.97  
## 222 1682 312881.72  
## 223 1683 263630.80  
## 224 1684 208347.26  
## 225 1685 172519.16  
## 226 1686 189764.25  
## 227 1687 206168.67  
## 228 1688 204397.73  
## 229 1689 207012.62  
## 230 1690 205241.96  
## 231 1691 204275.88  
## 232 1692 243056.25  
## 233 1693 206535.08  
## 234 1694 170157.30  
## 235 1695 202342.42  
## 236 1696 212291.47  
## 237 1697 202462.12  
## 238 1698 337520.73  
## 239 1699 332991.27  
## 240 1700 297938.44  
## 241 1701 333787.87  
## 242 1702 268596.20  
## 243 1703 267389.52  
## 244 1704 266942.79  
## 245 1705 265378.54  
## 246 1706 300827.09  
## 247 1707 210898.48  
## 248 1708 211688.69  
## 249 1709 282925.03  
## 250 1710 242961.76  
## 251 1711 246751.58  
## 252 1712 244432.90  
## 253 1713 213405.25  
## 254 1714 210036.43  
## 255 1715 209292.63  
## 256 1716 219498.93  
## 257 1717 216574.10  
## 258 1718 182493.10  
## 259 1719 219686.65  
## 260 1720 252465.06  
## 261 1721 222671.61  
## 262 1722 155925.21  
## 263 1723 154811.63  
## 264 1724 217071.84  
## 265 1725 217910.67  
## 266 1726 178494.20  
## 267 1727 177141.53  
## 268 1728 214292.41  
## 269 1729 179510.85  
## 270 1730 175269.35  
## 271 1731 136165.89  
## 272 1732 134284.09  
## 273 1733 134992.46  
## 274 1734 136697.53  
## 275 1735 134127.18  
## 276 1736 132990.40  
## 277 1737 280496.71  
## 278 1738 300020.75  
## 279 1739 203238.16  
## 280 1740 172440.84  
## 281 1741 172913.50  
## 282 1742 168593.47  
## 283 1743 202553.20  
## 284 1744 278235.64  
## 285 1745 247161.08  
## 286 1746 271660.23  
## 287 1747 211971.56  
## 288 1748 173272.88  
## 289 1749 139630.41  
## 290 1750 172270.81  
## 291 1751 214305.91  
## 292 1752 132477.82  
## 293 1753 135494.53  
## 294 1754 208146.33  
## 295 1755 182138.67  
## 296 1756 97001.03  
## 297 1757 130861.83  
## 298 1758 98399.10  
## 299 1759 136358.72  
## 300 1760 133065.78  
## 301 1761 135532.03  
## 302 1762 134017.28  
## 303 1763 169034.33  
## 304 1764 131452.88  
## 305 1765 169234.13  
## 306 1766 167932.68  
## 307 1767 174736.56  
## 308 1768 130575.67  
## 309 1769 203042.91  
## 310 1770 165596.83  
## 311 1771 130563.46  
## 312 1772 130209.56  
## 313 1773 99205.47  
## 314 1774 132165.29  
## 315 1775 162469.18  
## 316 1776 134070.14  
## 317 1777 126340.77  
## 318 1778 127775.06  
## 319 1779 130458.06  
## 320 1780 197738.40  
## 321 1781 129478.19  
## 322 1782 75874.12  
## 323 1783 142406.12  
## 324 1784 91989.29  
## 325 1785 136755.32  
## 326 1786 100062.94  
## 327 1787 194492.52  
## 328 1788 36045.18  
## 329 1789 135681.97  
## 330 1790 58318.50  
## 331 1791 169662.25  
## 332 1792 168115.31  
## 333 1793 171188.27  
## 334 1794 163740.67  
## 335 1795 166371.73  
## 336 1796 164949.80  
## 337 1797 160975.41  
## 338 1798 129561.39  
## 339 1799 127254.77  
## 340 1800 130709.16  
## 341 1801 97216.69  
## 342 1802 160267.60  
## 343 1803 165326.70  
## 344 1804 138171.00  
## 345 1805 165419.81  
## 346 1806 146945.38  
## 347 1807 145703.11  
## 348 1808 118867.75  
## 349 1809 111832.82  
## 350 1810 117828.63  
## 351 1811 79222.54  
## 352 1812 112118.62  
## 353 1813 121225.69  
## 354 1814 78950.18  
## 355 1815 17475.46  
## 356 1816 114748.11  
## 357 1817 78093.22  
## 358 1818 139834.99  
## 359 1819 139988.90  
## 360 1820 66898.91  
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## 1058 2518 152535.97  
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## 1063 2523 138935.31  
## 1064 2524 135808.11  
## 1065 2525 137456.63  
## 1066 2526 136555.28  
## 1067 2527 145493.05  
## 1068 2528 136693.87  
## 1069 2529 132609.34  
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## 1071 2531 214338.46  
## 1072 2532 212218.58  
## 1073 2533 211142.86  
## 1074 2534 246288.08  
## 1075 2535 249743.69  
## 1076 2536 217736.15  
## 1077 2537 254530.69  
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## 1079 2539 212950.81  
## 1080 2540 179400.23  
## 1081 2541 212772.20  
## 1082 2542 146541.50  
## 1083 2543 129800.43  
## 1084 2544 93158.85  
## 1085 2545 122828.83  
## 1086 2546 158760.49  
## 1087 2547 162035.21  
## 1088 2548 133717.50  
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## 1091 2551 149899.76  
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## 1093 2553 88586.00  
## 1094 2554 121044.55  
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## 1102 2562 190793.87  
## 1103 2563 193094.67  
## 1104 2564 226913.37  
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## 1106 2566 128563.86  
## 1107 2567 163889.27  
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## 1109 2569 225575.19  
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## 1112 2572 209864.72  
## 1113 2573 258927.99  
## 1114 2574 294374.39  
## 1115 2575 149676.19  
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## 1148 2608 168879.85  
## 1149 2609 137495.06  
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## 1152 2612 140455.88  
## 1153 2613 143696.53  
## 1154 2614 142611.69  
## 1155 2615 166009.85  
## 1156 2616 166114.31  
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## 1166 2626 167243.97  
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## 1169 2629 383592.84  
## 1170 2630 343172.50  
## 1171 2631 381137.95  
## 1172 2632 347252.07  
## 1173 2633 337756.14  
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## 1213 2673 188404.54  
## 1214 2674 170065.08  
## 1215 2675 189554.18  
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## 1221 2681 366635.11  
## 1222 2682 332452.37  
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## 1225 2685 334878.53  
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## 1227 2687 272803.07  
## 1228 2688 267573.29  
## 1229 2689 244354.09  
## 1230 2690 283250.19  
## 1231 2691 176624.79  
## 1232 2692 183131.57  
## 1233 2693 220524.20  
## 1234 2694 189652.31  
## 1235 2695 216586.60  
## 1236 2696 216381.42  
## 1237 2697 180997.74  
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## 1239 2699 177141.53  
## 1240 2700 177495.43  
## 1241 2701 180809.29  
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## 1243 2703 154631.54  
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## 1245 2705 136687.76  
## 1246 2706 136701.56  
## 1247 2707 135161.66  
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## 1252 2712 332619.34  
## 1253 2713 204151.72  
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## 1256 2716 204798.10  
## 1257 2717 207397.61  
## 1258 2718 240801.42  
## 1259 2719 144979.02  
## 1260 2720 206328.53  
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## 1263 2723 168928.51  
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## 1265 2725 135334.82  
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## 1269 2729 134127.48  
## 1270 2730 134482.82  
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## 1274 2734 131722.44  
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## 1276 2736 128955.74  
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## 1278 2738 134660.35  
## 1279 2739 171592.18  
## 1280 2740 167602.34  
## 1281 2741 130489.89  
## 1282 2742 165694.82  
## 1283 2743 132090.14  
## 1284 2744 165648.98  
## 1285 2745 162425.21  
## 1286 2746 134067.41  
## 1287 2747 163901.45  
## 1288 2748 129281.05  
## 1289 2749 133372.54  
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## 1291 2751 136950.06  
## 1292 2752 207327.93  
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## 1296 2756 71998.27  
## 1297 2757 56904.68  
## 1298 2758 90599.40  
## 1299 2759 162888.83  
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## 1301 2761 168165.38  
## 1302 2762 166988.29  
## 1303 2763 168209.92  
## 1304 2764 201913.46  
## 1305 2765 211066.55  
## 1306 2766 99212.08  
## 1307 2767 61442.05  
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## 1309 2769 130195.63  
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## 1312 2772 130549.53  
## 1313 2773 108240.06  
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## 1315 2775 76649.17  
## 1316 2776 141300.60  
## 1317 2777 170827.80  
## 1318 2778 178402.51  
## 1319 2779 72288.61  
## 1320 2780 147523.78  
## 1321 2781 111929.90  
## 1322 2782 89318.10  
## 1323 2783 40524.93  
## 1324 2784 122995.20  
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## 1326 2786 46451.17  
## 1327 2787 157196.89  
## 1328 2788 43553.22  
## 1329 2789 174182.40  
## 1330 2790 110579.31  
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## 1332 2792 35536.29  
## 1333 2793 168660.95  
## 1334 2794 44593.57  
## 1335 2795 111339.97  
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## 1337 2797 191968.48  
## 1338 2798 81322.20  
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## 1342 2802 135478.98  
## 1343 2803 171939.67  
## 1344 2804 146111.04  
## 1345 2805 116551.94  
## 1346 2806 127006.53  
## 1347 2807 218160.27  
## 1348 2808 139861.45  
## 1349 2809 170999.24  
## 1350 2810 136665.49  
## 1351 2811 137672.81  
## 1352 2812 172057.79  
## 1353 2813 141366.94  
## 1354 2814 139624.09  
## 1355 2815 132218.40  
## 1356 2816 235077.40  
## 1357 2817 157993.50  
## 1358 2818 140657.84  
## 1359 2819 216894.02  
## 1360 2820 91276.89  
## 1361 2821 116877.26  
## 1362 2822 161737.51  
## 1363 2823 164031.63  
## 1364 2824 130295.28  
## 1365 2825 127206.93  
## 1366 2826 126401.21  
## 1367 2827 157852.60  
## 1368 2828 182836.93  
## 1369 2829 180516.45  
## 1370 2830 215679.28  
## 1371 2831 211386.27  
## 1372 2832 185559.45  
## 1373 2833 249836.58  
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## 1375 2835 213618.88  
## 1376 2836 213618.88  
## 1377 2837 191853.80  
## 1378 2838 148205.10  
## 1379 2839 180519.68  
## 1380 2840 210370.90  
## 1381 2841 211441.73  
## 1382 2842 216515.18  
## 1383 2843 169144.38  
## 1384 2844 171995.93  
## 1385 2845 132609.34  
## 1386 2846 213307.08  
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## 1388 2848 248094.59  
## 1389 2849 211836.58  
## 1390 2850 246395.34  
## 1391 2851 225354.88  
## 1392 2852 213503.64  
## 1393 2853 212441.93  
## 1394 2854 154365.59  
## 1395 2855 212293.08  
## 1396 2856 213075.10  
## 1397 2857 212500.13  
## 1398 2858 212954.47  
## 1399 2859 74974.83  
## 1400 2860 163580.49  
## 1401 2861 138212.45  
## 1402 2862 206034.89  
## 1403 2863 173392.34  
## 1404 2864 210795.67  
## 1405 2865 149899.76  
## 1406 2866 181510.85  
## 1407 2867 86199.06  
## 1408 2868 142324.36  
## 1409 2869 79843.97  
## 1410 2870 99382.93  
## 1411 2871 78575.57  
## 1412 2872 11633.75  
## 1413 2873 78163.75  
## 1414 2874 134639.33  
## 1415 2875 139275.19  
## 1416 2876 192387.89  
## 1417 2877 154325.24  
## 1418 2878 226731.24  
## 1419 2879 134106.54  
## 1420 2880 129961.96  
## 1421 2881 208833.36  
## 1422 2882 171082.03  
## 1423 2883 228769.24  
## 1424 2884 234899.51  
## 1425 2885 203126.84  
## 1426 2886 178529.35  
## 1427 2887 117362.54  
## 1428 2888 144721.56  
## 1429 2889 79494.79  
## 1430 2890 77657.90  
## 1431 2891 158208.50  
## 1432 2892 54379.95  
## 1433 2893 119138.73  
## 1434 2894 39419.50  
## 1435 2895 266870.02  
## 1436 2896 264188.24  
## 1437 2897 190255.25  
## 1438 2898 171343.08  
## 1439 2899 247122.03  
## 1440 2900 173572.88  
## 1441 2901 223303.49  
## 1442 2902 186866.20  
## 1443 2903 262123.91  
## 1444 2904 293004.36  
## 1445 2905 NA  
## 1446 2906 190562.38  
## 1447 2907 119106.83  
## 1448 2908 136613.39  
## 1449 2909 139353.50  
## 1450 2910 81796.81  
## 1451 2911 82521.71  
## 1452 2912 140890.24  
## 1453 2913 81873.75  
## 1454 2914 81865.21  
## 1455 2915 82365.95  
## 1456 2916 82314.66  
## 1457 2917 145785.50  
## 1458 2918 145435.59  
## 1459 2919 211541.72

Then, with Random Forest:

#First, we correct the levels of the variables in order to make the two datasets match.  
levels(test$Utilities) <- levels(train$Utilities)  
levels(test$Condition2) <- levels(train$Condition2)  
levels(test$HouseStyle) <- levels(train$HouseStyle)  
levels(test$RoofMatl) <- levels(train$RoofMatl)  
levels(test$Exterior2nd) <- levels(train$Exterior2nd)  
levels(test$Electrical) <- levels(train$Electrical)  
levels(test$GarageQual) <- levels(train$GarageQual)  
levels(test$Exterior1st) <- levels(train$Exterior1st)  
levels(test$Heating) <- levels(train$Heating)  
  
#Then, we predict  
predict2 <- data.frame(Id = test$Id, SalePrice\_predict = predict(fit, test, type="response"))  
predict2

## Id SalePrice\_predict  
## 1 1461 125938.25  
## 2 1462 154644.20  
## 3 1463 184233.55  
## 4 1464 187172.45  
## 5 1465 196754.82  
## 6 1466 183509.15  
## 7 1467 172966.66  
## 8 1468 178761.88  
## 9 1469 179209.69  
## 10 1470 129002.83  
## 11 1471 189210.97  
## 12 1472 97026.24  
## 13 1473 98315.37  
## 14 1474 153040.60  
## 15 1475 135795.15  
## 16 1476 378758.34  
## 17 1477 256909.24  
## 18 1478 303151.08  
## 19 1479 285590.43  
## 20 1480 459280.00  
## 21 1481 304626.82  
## 22 1482 207217.77  
## 23 1483 182888.50  
## 24 1484 172177.40  
## 25 1485 174686.68  
## 26 1486 197949.73  
## 27 1487 320820.88  
## 28 1488 NA  
## 29 1489 209394.76  
## 30 1490 214734.65  
## 31 1491 191883.46  
## 32 1492 107997.88  
## 33 1493 174529.39  
## 34 1494 301276.18  
## 35 1495 291337.08  
## 36 1496 232683.84  
## 37 1497 191154.95  
## 38 1498 157419.30  
## 39 1499 155518.73  
## 40 1500 164573.46  
## 41 1501 174097.44  
## 42 1502 158991.05  
## 43 1503 284171.28  
## 44 1504 227448.18  
## 45 1505 216047.30  
## 46 1506 191935.44  
## 47 1507 239638.10  
## 48 1508 195547.52  
## 49 1509 170434.23  
## 50 1510 154831.08  
## 51 1511 151223.21  
## 52 1512 170385.85  
## 53 1513 149187.39  
## 54 1514 NA  
## 55 1515 190535.22  
## 56 1516 157708.20  
## 57 1517 152527.73  
## 58 1518 137171.51  
## 59 1519 208564.03  
## 60 1520 140633.50  
## 61 1521 146004.18  
## 62 1522 164600.20  
## 63 1523 124084.80  
## 64 1524 127027.70  
## 65 1525 127422.96  
## 66 1526 130728.60  
## 67 1527 121333.97  
## 68 1528 133393.18  
## 69 1529 145088.80  
## 70 1530 166963.89  
## 71 1531 133848.60  
## 72 1532 NA  
## 73 1533 143011.51  
## 74 1534 121169.42  
## 75 1535 153682.19  
## 76 1536 119074.32  
## 77 1537 91234.78  
## 78 1538 171315.82  
## 79 1539 229439.38  
## 80 1540 NA  
## 81 1541 143922.43  
## 82 1542 149843.91  
## 83 1543 187911.46  
## 84 1544 98892.06  
## 85 1545 111211.44  
## 86 1546 125859.34  
## 87 1547 138866.64  
## 88 1548 133150.09  
## 89 1549 117899.27  
## 90 1550 147781.64  
## 91 1551 118618.30  
## 92 1552 143004.86  
## 93 1553 NA  
## 94 1554 117193.99  
## 95 1555 182225.21  
## 96 1556 NA  
## 97 1557 NA  
## 98 1558 106817.57  
## 99 1559 NA  
## 100 1560 147102.72  
## 101 1561 NA  
## 102 1562 128160.02  
## 103 1563 126974.96  
## 104 1564 161427.21  
## 105 1565 154766.86  
## 106 1566 222019.62  
## 107 1567 101432.30  
## 108 1568 224250.77  
## 109 1569 155586.06  
## 110 1570 137301.23  
## 111 1571 135100.30  
## 112 1572 140495.08  
## 113 1573 221252.06  
## 114 1574 133307.58  
## 115 1575 209359.37  
## 116 1576 219345.25  
## 117 1577 200755.67  
## 118 1578 159249.26  
## 119 1579 147625.05  
## 120 1580 190298.91  
## 121 1581 148918.04  
## 122 1582 131025.52  
## 123 1583 311542.96  
## 124 1584 230827.36  
## 125 1585 141893.76  
## 126 1586 NA  
## 127 1587 107199.71  
## 128 1588 148495.63  
## 129 1589 104379.73  
## 130 1590 131992.66  
## 131 1591 NA  
## 132 1592 137605.02  
## 133 1593 120804.07  
## 134 1594 NA  
## 135 1595 NA  
## 136 1596 229180.07  
## 137 1597 200552.68  
## 138 1598 191317.03  
## 139 1599 183665.33  
## 140 1600 183053.76  
## 141 1601 86219.41  
## 142 1602 113811.02  
## 143 1603 98550.87  
## 144 1604 284174.21  
## 145 1605 238039.97  
## 146 1606 170126.19  
## 147 1607 175637.92  
## 148 1608 215470.41  
## 149 1609 198200.65  
## 150 1610 174597.15  
## 151 1611 150779.49  
## 152 1612 180493.24  
## 153 1613 170952.90  
## 154 1614 123399.31  
## 155 1615 NA  
## 156 1616 NA  
## 157 1617 94080.08  
## 158 1618 130568.43  
## 159 1619 136245.65  
## 160 1620 183672.42  
## 161 1621 146071.25  
## 162 1622 151521.42  
## 163 1623 259339.78  
## 164 1624 204585.33  
## 165 1625 126873.18  
## 166 1626 166610.59  
## 167 1627 187586.22  
## 168 1628 260854.82  
## 169 1629 178766.13  
## 170 1630 357465.54  
## 171 1631 219417.41  
## 172 1632 250779.60  
## 173 1633 172448.46  
## 174 1634 185921.68  
## 175 1635 180022.15  
## 176 1636 167364.54  
## 177 1637 189058.79  
## 178 1638 200689.25  
## 179 1639 186485.80  
## 180 1640 235726.42  
## 181 1641 184391.08  
## 182 1642 230269.94  
## 183 1643 223441.65  
## 184 1644 220819.18  
## 185 1645 190462.27  
## 186 1646 163084.80  
## 187 1647 162179.43  
## 188 1648 144930.00  
## 189 1649 141999.22  
## 190 1650 125666.94  
## 191 1651 125892.02  
## 192 1652 94434.56  
## 193 1653 101268.29  
## 194 1654 154693.97  
## 195 1655 149957.44  
## 196 1656 149289.68  
## 197 1657 154386.85  
## 198 1658 155671.57  
## 199 1659 140763.51  
## 200 1660 150648.67  
## 201 1661 426140.65  
## 202 1662 370701.76  
## 203 1663 358435.06  
## 204 1664 438993.00  
## 205 1665 315157.83  
## 206 1666 329127.71  
## 207 1667 344721.18  
## 208 1668 325193.96  
## 209 1669 298396.35  
## 210 1670 334558.53  
## 211 1671 261057.67  
## 212 1672 464569.55  
## 213 1673 300055.86  
## 214 1674 254429.91  
## 215 1675 195023.27  
## 216 1676 195514.19  
## 217 1677 214718.78  
## 218 1678 461214.51  
## 219 1679 375586.07  
## 220 1680 321635.67  
## 221 1681 256023.93  
## 222 1682 305896.70  
## 223 1683 189127.51  
## 224 1684 174187.11  
## 225 1685 176931.07  
## 226 1686 170789.28  
## 227 1687 170884.45  
## 228 1688 186548.41  
## 229 1689 188610.47  
## 230 1690 184457.98  
## 231 1691 176690.33  
## 232 1692 NA  
## 233 1693 174111.49  
## 234 1694 186266.21  
## 235 1695 173795.13  
## 236 1696 251648.41  
## 237 1697 173340.73  
## 238 1698 333365.78  
## 239 1699 336555.27  
## 240 1700 248850.70  
## 241 1701 264124.61  
## 242 1702 251141.20  
## 243 1703 249362.12  
## 244 1704 282861.42  
## 245 1705 231508.83  
## 246 1706 396028.62  
## 247 1707 NA  
## 248 1708 218849.41  
## 249 1709 262857.22  
## 250 1710 219393.17  
## 251 1711 266285.65  
## 252 1712 251627.33  
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## 1453 2913 90872.82  
## 1454 2914 NA  
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## 1458 2918 NA  
## 1459 2919 208656.35

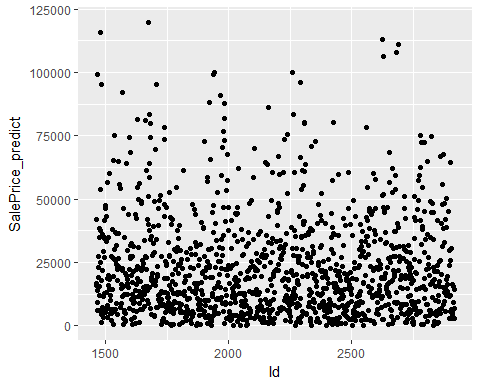
To compare the two predictions, we make plots.

#First, we can compute the difference between the two predictions.  
diff <- data.frame(SalePrice\_predict = abs(predict1$SalePrice\_predict - predict2$SalePrice\_predict))  
diff

## SalePrice\_predict  
## 1 15865.07401  
## 2 16738.40158  
## 3 41919.58024  
## 4 15835.98478  
## 5 99189.94489  
## 6 13915.32532  
## 7 6193.84026  
## 8 9350.24927  
## 9 22910.58848  
## 10 27285.40785  
## 11 5982.90847  
## 12 19135.36988  
## 13 15526.95568  
## 14 12063.35385  
## 15 38555.29857  
## 16 34803.98513  
## 17 53702.43953  
## 18 37753.50300  
## 19 25118.88630  
## 20 115687.88624  
## 21 4444.31803  
## 22 95308.27939  
## 23 1326.21995  
## 24 17966.40309  
## 25 36203.69829  
## 26 7172.25199  
## 27 21748.22438  
## 28 NA  
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## 31 29381.15857  
## 32 11564.18579  
## 33 6169.31570  
## 34 34283.85537  
## 35 41415.38248  
## 36 27057.95891  
## 37 12858.75769  
## 38 46228.00618  
## 39 47309.05689  
## 40 5235.02401  
## 41 5525.95925  
## 42 43310.62065  
## 43 33256.07580  
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## 45 7263.68752  
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## 56 14266.89095  
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## 58 6490.15013  
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## 60 9863.27026  
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## 62 1963.92982  
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## 65 5406.37763  
## 66 6450.29467  
## 67 37924.78171  
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## 79 25664.20597  
## 80 NA  
## 81 6336.50717  
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## 83 8597.91430  
## 84 24062.70256  
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## 91 26571.78840  
## 92 64981.46849  
## 93 NA  
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## 95 22944.49621  
## 96 NA  
## 97 NA  
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## 101 NA  
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## 1453 8999.06601  
## 1454 NA  
## 1455 NA  
## 1456 6622.46661  
## 1457 14148.36757  
## 1458 NA  
## 1459 2885.36483

ggplot(diff, aes(x=Id, y=SalePrice\_predict)) + geom\_point()

## Warning: Removed 140 rows containing missing values (geom\_point).



#We can see that the matching between the two predictions is unequal among the observations.

Then, we can compare the two predictions.

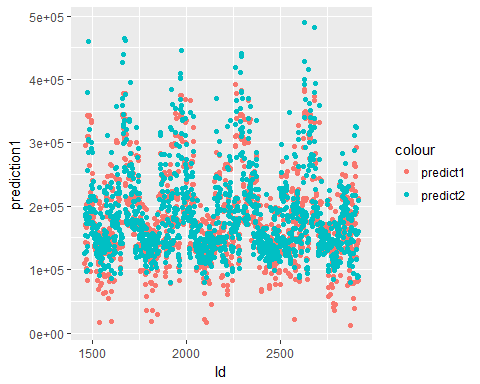
prediction1 <- predict1$SalePrice\_predict  
prediction2 <- predict2$SalePrice\_predict  
  
predictions <- data.frame(Id, prediction1 = predict1$SalePrice\_predict, prediction2 = predict2$SalePrice\_predict)  
predictions

## Id prediction1 prediction2  
## 1 1461 110073.18 125938.25  
## 2 1462 171382.60 154644.20  
## 3 1463 142313.97 184233.55  
## 4 1464 171336.47 187172.45  
## 5 1465 295944.76 196754.82  
## 6 1466 169593.83 183509.15  
## 7 1467 166772.82 172966.66  
## 8 1468 169411.64 178761.88  
## 9 1469 202120.28 179209.69  
## 10 1470 101717.42 129002.83  
## 11 1471 183228.07 189210.97  
## 12 1472 116161.61 97026.24  
## 13 1473 82788.41 98315.37  
## 14 1474 140977.25 153040.60  
## 15 1475 174350.45 135795.15  
## 16 1476 343954.35 378758.34  
## 17 1477 310611.68 256909.24  
## 18 1478 340904.59 303151.08  
## 19 1479 310709.32 285590.43  
## 20 1480 343592.11 459280.00  
## 21 1481 309071.14 304626.82  
## 22 1482 302526.05 207217.77  
## 23 1483 184214.72 182888.50  
## 24 1484 190143.80 172177.40  
## 25 1485 210890.38 174686.68  
## 26 1486 205121.99 197949.73  
## 27 1487 342569.10 320820.88  
## 28 1488 264839.00 NA  
## 29 1489 212744.86 209394.76  
## 30 1490 179452.19 214734.65  
## 31 1491 221264.62 191883.46  
## 32 1492 96433.69 107997.88  
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## 36 1496 205625.88 232683.84  
## 37 1497 204013.71 191154.95  
## 38 1498 203647.31 157419.30  
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## 40 1500 169808.49 164573.46  
## 41 1501 168571.48 174097.44  
## 42 1502 202301.68 158991.05  
## 43 1503 250915.20 284171.28  
## 44 1504 240690.56 227448.18  
## 45 1505 208783.62 216047.30  
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## 47 1507 182951.89 239638.10  
## 48 1508 187470.26 195547.52  
## 49 1509 173711.42 170434.23  
## 50 1510 135140.62 154831.08  
## 51 1511 135507.03 151223.21  
## 52 1512 135592.23 170385.85  
## 53 1513 169027.36 149187.39  
## 54 1514 138195.12 NA  
## 55 1515 130337.44 190535.22  
## 56 1516 171975.09 157708.20  
## 57 1517 170687.81 152527.73  
## 58 1518 130681.36 137171.51  
## 59 1519 213267.87 208564.03  
## 60 1520 130770.23 140633.50  
## 61 1521 134037.32 146004.18  
## 62 1522 166564.13 164600.20  
## 63 1523 96740.81 124084.80  
## 64 1524 131834.80 127027.70  
## 65 1525 132829.33 127422.96  
## 66 1526 137178.89 130728.60  
## 67 1527 83409.19 121333.97  
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## 70 1530 167647.53 166963.89  
## 71 1531 68691.76 133848.60  
## 72 1532 108758.29 NA  
## 73 1533 123464.85 143011.51  
## 74 1534 151451.27 121169.42  
## 75 1535 127663.95 153682.19  
## 76 1536 113343.20 119074.32  
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## 79 1539 203775.17 229439.38  
## 80 1540 110788.58 NA  
## 81 1541 150258.94 143922.43  
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## 83 1543 196509.38 187911.46  
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## 85 1545 147751.73 111211.44  
## 86 1546 148105.64 125859.34  
## 87 1547 115879.92 138866.64  
## 88 1548 150936.86 133150.09  
## 89 1549 113609.95 117899.27  
## 90 1550 111486.53 147781.64  
## 91 1551 145190.09 118618.30  
## 92 1552 78023.39 143004.86  
## 93 1553 149577.85 NA  
## 94 1554 140400.85 117193.99  
## 95 1555 159280.71 182225.21  
## 96 1556 138760.78 NA  
## 97 1557 125290.45 NA  
## 98 1558 162749.20 106817.57  
## 99 1559 62160.40 NA  
## 100 1560 93048.85 147102.72  
## 101 1561 105811.63 NA  
## 102 1562 135199.88 128160.02  
## 103 1563 135946.77 126974.96  
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## 106 1566 238258.57 222019.62  
## 107 1567 89806.42 101432.30  
## 108 1568 201599.68 224250.77  
## 109 1569 63508.12 155586.06  
## 110 1570 159177.39 137301.23  
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## 112 1572 124833.30 140495.08  
## 113 1573 220766.20 221252.06  
## 114 1574 130418.07 133307.58  
## 115 1575 215321.56 209359.37  
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## 117 1577 212999.45 200755.67  
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## 120 1580 210813.31 190298.91  
## 121 1581 144198.43 148918.04  
## 122 1582 132951.32 131025.52  
## 123 1583 247594.77 311542.96  
## 124 1584 210859.72 230827.36  
## 125 1585 154365.59 141893.76  
## 126 1586 53988.21 NA  
## 127 1587 123999.12 107199.71  
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## 131 1591 89071.23 NA  
## 132 1592 122311.47 137605.02  
## 133 1593 164702.41 120804.07  
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## 136 1596 235803.17 229180.07  
## 137 1597 178529.35 200552.68  
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## 145 1605 248422.40 238039.97  
## 146 1606 172497.53 170126.19  
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## 148 1608 227709.27 215470.41  
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## 155 1615 81804.14 NA  
## 156 1616 82321.99 NA  
## 157 1617 83017.58 94080.08  
## 158 1618 133743.60 130568.43  
## 159 1619 145591.77 136245.65  
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## 162 1622 137421.63 151521.42  
## 163 1623 245592.48 259339.78  
## 164 1624 182240.47 204585.33  
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## 166 1626 172077.85 166610.59  
## 167 1627 171228.06 187586.22  
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## 193 1653 116515.51 101268.29  
## 194 1654 141365.35 154693.97  
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## 199 1659 174489.39 140763.51  
## 200 1660 136496.31 150648.67  
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## 1223 2683 373939.51 481711.65  
## 1224 2684 332363.50 301397.36  
## 1225 2685 334878.53 338174.14  
## 1226 2686 269064.83 259995.02  
## 1227 2687 272803.07 NA  
## 1228 2688 267573.29 227109.28  
## 1229 2689 244354.09 205536.45  
## 1230 2690 283250.19 394373.59  
## 1231 2691 176624.79 198399.88  
## 1232 2692 183131.57 NA  
## 1233 2693 220524.20 193120.78  
## 1234 2694 189652.31 NA  
## 1235 2695 216586.60 191340.83  
## 1236 2696 216381.42 185275.08  
## 1237 2697 180997.74 196086.62  
## 1238 2698 180530.17 198681.27  
## 1239 2699 177141.53 184130.36  
## 1240 2700 177495.43 170739.11  
## 1241 2701 180809.29 161142.17  
## 1242 2702 135372.02 127118.39  
## 1243 2703 154631.54 NA  
## 1244 2704 135543.00 140445.67  
## 1245 2705 136687.76 128294.95  
## 1246 2706 136701.56 121969.23  
## 1247 2707 135161.66 127334.30  
## 1248 2708 141260.46 133408.51  
## 1249 2709 134760.77 NA  
## 1250 2710 136761.69 128212.38  
## 1251 2711 243356.17 274461.12  
## 1252 2712 332619.34 359288.47  
## 1253 2713 204151.72 174095.10  
## 1254 2714 203181.69 152234.54  
## 1255 2715 168593.47 173213.48  
## 1256 2716 204798.10 158398.56  
## 1257 2717 207397.61 188711.57  
## 1258 2718 240801.42 239393.43  
## 1259 2719 144979.02 164840.53  
## 1260 2720 206328.53 164077.12  
## 1261 2721 135848.43 144095.86  
## 1262 2722 134675.94 164163.68  
## 1263 2723 168928.51 143433.89  
## 1264 2724 134382.82 133077.17  
## 1265 2725 135334.82 137948.97  
## 1266 2726 135494.53 150212.59  
## 1267 2727 167182.85 172237.73  
## 1268 2728 168744.01 164064.55  
## 1269 2729 134127.48 157040.69  
## 1270 2730 134482.82 146001.57  
## 1271 2731 155906.54 124153.03  
## 1272 2732 128567.92 124200.66  
## 1273 2733 133371.11 157937.08  
## 1274 2734 131722.44 153446.26  
## 1275 2735 129832.09 136390.85  
## 1276 2736 128955.74 147512.27  
## 1277 2737 131245.54 125162.16  
## 1278 2738 134660.35 139780.65  
## 1279 2739 171592.18 159485.88  
## 1280 2740 167602.34 138523.25  
## 1281 2741 130489.89 150711.83  
## 1282 2742 165694.82 156012.29  
## 1283 2743 132090.14 151160.94  
## 1284 2744 165648.98 148988.48  
## 1285 2745 162425.21 139391.20  
## 1286 2746 134067.41 136750.34  
## 1287 2747 163901.45 154387.99  
## 1288 2748 129281.05 137644.64  
## 1289 2749 133372.54 134709.66  
## 1290 2750 136133.06 135457.68  
## 1291 2751 136950.06 130557.68  
## 1292 2752 207327.93 208886.79  
## 1293 2753 136120.56 153840.32  
## 1294 2754 151296.60 202213.45  
## 1295 2755 159224.86 132959.38  
## 1296 2756 71998.27 106443.78  
## 1297 2757 56904.68 99539.70  
## 1298 2758 90599.40 97744.59  
## 1299 2759 162888.83 153860.15  
## 1300 2760 98791.73 140244.02  
## 1301 2761 168165.38 147019.25  
## 1302 2762 166988.29 146427.48  
## 1303 2763 168209.92 172714.64  
## 1304 2764 201913.46 NA  
## 1305 2765 211066.55 225464.91  
## 1306 2766 99212.08 145267.83  
## 1307 2767 61442.05 NA  
## 1308 2768 131688.39 NA  
## 1309 2769 130195.63 135638.67  
## 1310 2770 197784.47 148327.02  
## 1311 2771 130549.53 120940.59  
## 1312 2772 130549.53 NA  
## 1313 2773 108240.06 165623.96  
## 1314 2774 124914.71 139694.80  
## 1315 2775 76649.17 135865.25  
## 1316 2776 141300.60 136124.43  
## 1317 2777 170827.80 145472.63  
## 1318 2778 178402.51 116067.07  
## 1319 2779 72288.61 147244.64  
## 1320 2780 147523.78 105951.72  
## 1321 2781 111929.90 106160.60  
## 1322 2782 89318.10 104319.75  
## 1323 2783 40524.93 112862.82  
## 1324 2784 122995.20 123537.55  
## 1325 2785 112024.23 144089.30  
## 1326 2786 46451.17 84519.41  
## 1327 2787 157196.89 117925.75  
## 1328 2788 43553.22 98102.43  
## 1329 2789 174182.40 173834.44  
## 1330 2790 110579.31 NA  
## 1331 2791 128636.94 112960.70  
## 1332 2792 35536.29 NA  
## 1333 2793 168660.95 169080.42  
## 1334 2794 44593.57 117073.09  
## 1335 2795 111339.97 122201.10  
## 1336 2796 135562.26 106555.70  
## 1337 2797 191968.48 173373.27  
## 1338 2798 81322.20 126599.49  
## 1339 2799 106318.58 120522.23  
## 1340 2800 111313.72 NA  
## 1341 2801 146381.44 112432.82  
## 1342 2802 135478.98 139090.40  
## 1343 2803 171939.67 163513.78  
## 1344 2804 146111.04 NA  
## 1345 2805 116551.94 NA  
## 1346 2806 127006.53 104689.75  
## 1347 2807 218160.27 153191.78  
## 1348 2808 139861.45 148051.73  
## 1349 2809 170999.24 134823.98  
## 1350 2810 136665.49 138498.53  
## 1351 2811 137672.81 160093.27  
## 1352 2812 172057.79 144934.21  
## 1353 2813 141366.94 168499.89  
## 1354 2814 139624.09 163768.64  
## 1355 2815 132218.40 112208.43  
## 1356 2816 235077.40 231076.66  
## 1357 2817 157993.50 154017.47  
## 1358 2818 140657.84 134570.14  
## 1359 2819 216894.02 182034.99  
## 1360 2820 91276.89 140532.68  
## 1361 2821 116877.26 110856.16  
## 1362 2822 161737.51 177910.70  
## 1363 2823 164031.63 238590.74  
## 1364 2824 130295.28 174921.62  
## 1365 2825 127206.93 NA  
## 1366 2826 126401.21 131148.01  
## 1367 2827 157852.60 141304.12  
## 1368 2828 182836.93 231129.15  
## 1369 2829 180516.45 197863.32  
## 1370 2830 215679.28 226754.68  
## 1371 2831 211386.27 188321.67  
## 1372 2832 185559.45 230130.69  
## 1373 2833 249836.58 283856.98  
## 1374 2834 215656.08 215501.92  
## 1375 2835 213618.88 214305.27  
## 1376 2836 213618.88 192255.02  
## 1377 2837 191853.80 173655.62  
## 1378 2838 148205.10 150018.26  
## 1379 2839 180519.68 184980.26  
## 1380 2840 210370.90 194752.44  
## 1381 2841 211441.73 201365.83  
## 1382 2842 216515.18 221805.72  
## 1383 2843 169144.38 159065.91  
## 1384 2844 171995.93 166497.12  
## 1385 2845 132609.34 126889.38  
## 1386 2846 213307.08 209195.89  
## 1387 2847 178307.91 202282.21  
## 1388 2848 248094.59 206442.86  
## 1389 2849 211836.58 210768.45  
## 1390 2850 246395.34 267692.11  
## 1391 2851 225354.88 226525.22  
## 1392 2852 213503.64 222982.75  
## 1393 2853 212441.93 228498.94  
## 1394 2854 154365.59 142301.36  
## 1395 2855 212293.08 196679.33  
## 1396 2856 213075.10 206621.18  
## 1397 2857 212500.13 187275.56  
## 1398 2858 212954.47 195663.05  
## 1399 2859 74974.83 142009.53  
## 1400 2860 163580.49 NA  
## 1401 2861 138212.45 133450.27  
## 1402 2862 206034.89 180246.19  
## 1403 2863 173392.34 NA  
## 1404 2864 210795.67 230904.64  
## 1405 2865 149899.76 143259.18  
## 1406 2866 181510.85 141215.47  
## 1407 2867 86199.06 106477.42  
## 1408 2868 142324.36 111127.80  
## 1409 2869 79843.97 127714.87  
## 1410 2870 99382.93 155288.20  
## 1411 2871 78575.57 NA  
## 1412 2872 11633.75 79390.46  
## 1413 2873 78163.75 116545.65  
## 1414 2874 134639.33 143036.60  
## 1415 2875 139275.19 124042.01  
## 1416 2876 192387.89 159568.17  
## 1417 2877 154325.24 144853.73  
## 1418 2878 226731.24 178575.93  
## 1419 2879 134106.54 147088.04  
## 1420 2880 129961.96 114678.45  
## 1421 2881 208833.36 166894.73  
## 1422 2882 171082.03 176759.54  
## 1423 2883 228769.24 186664.70  
## 1424 2884 234899.51 184793.78  
## 1425 2885 203126.84 184819.37  
## 1426 2886 178529.35 217474.83  
## 1427 2887 117362.54 105409.12  
## 1428 2888 144721.56 125117.49  
## 1429 2889 79494.79 NA  
## 1430 2890 77657.90 94092.44  
## 1431 2891 158208.50 144610.88  
## 1432 2892 54379.95 NA  
## 1433 2893 119138.73 NA  
## 1434 2894 39419.50 NA  
## 1435 2895 266870.02 312128.93  
## 1436 2896 264188.24 287933.41  
## 1437 2897 190255.25 187255.06  
## 1438 2898 171343.08 159843.15  
## 1439 2899 247122.03 217249.17  
## 1440 2900 173572.88 161604.94  
## 1441 2901 223303.49 197657.90  
## 1442 2902 186866.20 192292.83  
## 1443 2903 262123.91 326480.12  
## 1444 2904 293004.36 323472.90  
## 1445 2905 NA NA  
## 1446 2906 190562.38 196886.87  
## 1447 2907 119106.83 116087.52  
## 1448 2908 136613.39 132038.01  
## 1449 2909 139353.50 155638.59  
## 1450 2910 81796.81 NA  
## 1451 2911 82521.71 87924.41  
## 1452 2912 140890.24 156264.34  
## 1453 2913 81873.75 90872.82  
## 1454 2914 81865.21 NA  
## 1455 2915 82365.95 NA  
## 1456 2916 82314.66 88937.12  
## 1457 2917 145785.50 159933.87  
## 1458 2918 145435.59 NA  
## 1459 2919 211541.72 208656.35

ggplot(data= predictions) + geom\_point(data = predict1, aes(x= Id, y=prediction1, color = "predict1")) + geom\_point(data = predict2, aes(x=Id, y=prediction2, color = "predict2"))

## Warning: Removed 4 rows containing missing values (geom\_point).

## Warning: Removed 140 rows containing missing values (geom\_point).



# TASK 2B

We have chosen to take the correct code from the Challenge A written by Rossi Abi-Rafehto, be sure that there will be no mistakes:

Indeed, here is the code of the Challenge A:

# We simulate an overfit:  
library(tidyverse)  
library(np)

## Warning: package 'np' was built under R version 3.4.3

## Nonparametric Kernel Methods for Mixed Datatypes (version 0.60-3)  
## [vignette("np\_faq",package="np") provides answers to frequently asked questions]  
## [vignette("np",package="np") an overview]  
## [vignette("entropy\_np",package="np") an overview of entropy-based methods]

library(caret)

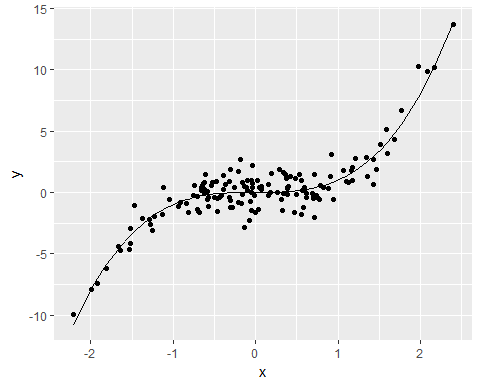
## Warning: package 'caret' was built under R version 3.4.3

## Loading required package: lattice

##   
## Attaching package: 'caret'

## The following object is masked from 'package:purrr':  
##   
## lift

# We compute the true model : y = x^3 + epsilon  
set.seed(1)  
Nsim <- 150  
b <- c(0,1)  
x0 <- rep(1, Nsim)  
x1 <- rnorm(n = Nsim)  
  
X <- cbind(x0, x1^3)  
y.true <- X %\*% b  
  
eps <- rnorm(n = Nsim)  
y <- X %\*% b + eps  
  
df <- tbl\_df(y[,1]) %>% rename(y = value) %>% bind\_cols(tbl\_df(x1)) %>% rename(x = value) %>% bind\_cols(tbl\_df(y.true[,1])) %>% rename(y.true = value)  
  
# We simulate Nsim = 100 points of (y,x)  
ggplot(df) + geom\_point(mapping = aes(x = x, y = y)) +   
 geom\_line(mapping = aes(x = x, y = y.true))



# We split the sample into training and testing:  
training.index <- createDataPartition(y = y, times = 1, p = 0.8)  
df <- df %>% mutate(which.data = ifelse(1:n() %in% training.index$Resample1, "training", "test"))  
  
training <- df %>% filter(which.data == "training")  
test <- df %>% filter(which.data == "test")  
  
# We create the model lm.fit:  
lm.fit <- lm(y ~ x, data = training)  
summary(lm.fit)

##   
## Call:  
## lm(formula = y ~ x, data = training)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -4.7575 -1.0695 0.0419 1.0229 7.6216   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 0.1950 0.1649 1.183 0.239   
## x 2.4446 0.1846 13.241 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.82 on 120 degrees of freedom  
## Multiple R-squared: 0.5937, Adjusted R-squared: 0.5903   
## F-statistic: 175.3 on 1 and 120 DF, p-value: < 2.2e-16

df <- df %>% mutate(y.lm = predict(object = lm.fit, newdata = df))  
training <- training %>% mutate(y.lm = predict(object = lm.fit))

Now, we can compute all the steps of the Task 2B:

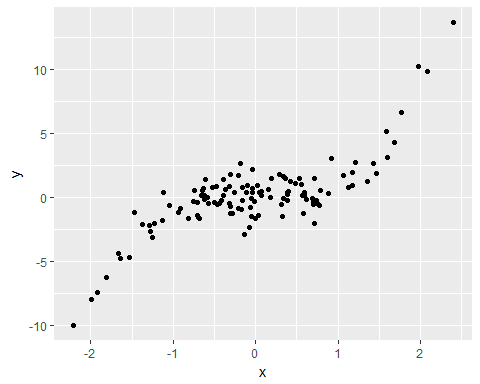
#Step 1:  
  
# We estimate a low-flexibility local linear model on the training data:  
ll.fit.lowflex <- npreg(y ~ x, data = training, method = "ll", bws = 0.5)  
summary(ll.fit.lowflex)

##   
## Regression Data: 122 training points, in 1 variable(s)  
## x  
## Bandwidth(s): 0.5  
##   
## Kernel Regression Estimator: Local-Constant  
## Bandwidth Type: Fixed  
## Residual standard error: 1.442574  
## R-squared: 0.8569977  
##   
## Continuous Kernel Type: Second-Order Gaussian  
## No. Continuous Explanatory Vars.: 1

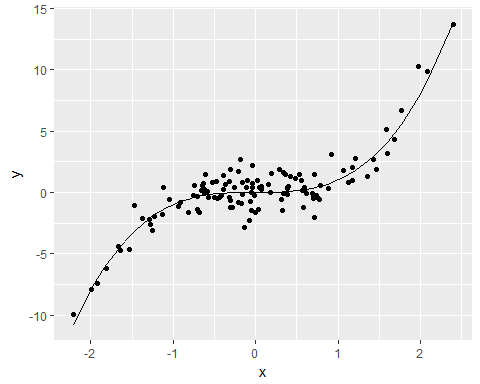
#Step 2:  
  
# We estimate a high-flexibility local linear model on the training data:  
ll.fit.highflex <- npreg(y ~ x, data = training, method = "ll", bws = 0.01)  
summary(ll.fit.highflex)

##   
## Regression Data: 122 training points, in 1 variable(s)  
## x  
## Bandwidth(s): 0.01  
##   
## Kernel Regression Estimator: Local-Constant  
## Bandwidth Type: Fixed  
## Residual standard error: 0.5882872  
## R-squared: 0.9569811  
##   
## Continuous Kernel Type: Second-Order Gaussian  
## No. Continuous Explanatory Vars.: 1

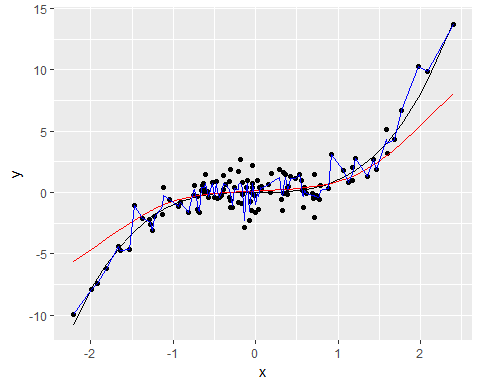
#Step 3:  
  
#We create the predictions of the two models above:  
  
training <- training %>% mutate(y.ll.lowflex = predict(object = ll.fit.lowflex, newdata = training), y.ll.highflex = predict(object = ll.fit.highflex, newdata = training))  
  
#Then, we plot the scatterplot of x-y on training data:  
  
#First, we get the simple plot of training:  
  
ggplot(training) + geom\_point(mapping = aes(x = x, y = y))



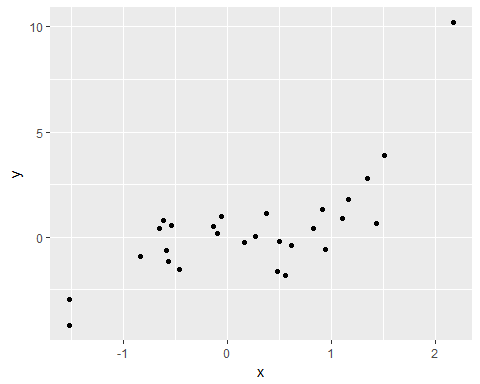
#Then, we add the true regression line:  
  
ggplot(training) + geom\_point(mapping = aes(x = x, y = y)) +   
 geom\_line(mapping = aes(x = x, y = y.true))



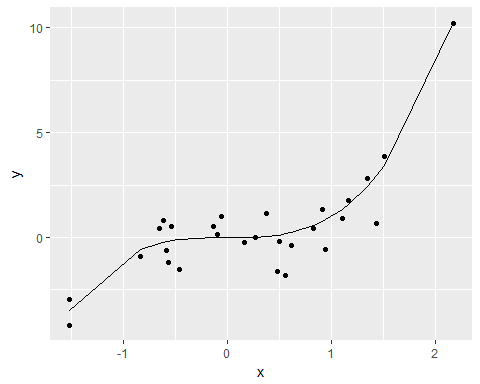
#And we can get the scatterplot of x-y with the predictions of the 2 models:  
  
ggplot(training) + geom\_point(mapping = aes(x = x, y = y)) +   
 geom\_line(mapping = aes(x = x, y = y.true)) +   
 geom\_line(mapping = aes(x = x, y = y.ll.lowflex), color = "red") +   
 geom\_line(mapping = aes(x = x, y = y.ll.highflex), color = "blue")



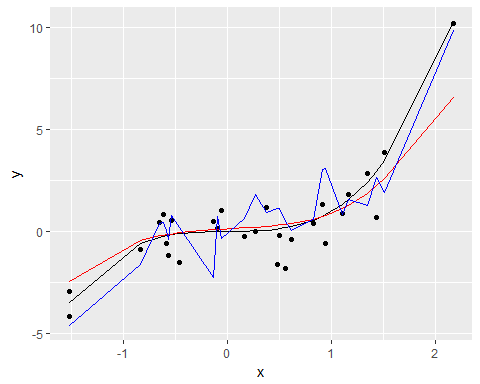
#Step 4:  
  
#The predictions of fit.highflex are more variables than the predictions of fit.lowflex, indeed, we observe more variations from the fit.highflex line than from the fit.lowflex line. The predictions of fit.lowflex have then the least bias.  
  
#Step 5:  
  
#First, we create the predictions of the two models on the test data:  
  
test <- test %>% mutate(y.ll.lowflex = predict(object = ll.fit.lowflex, newdata = test), y.ll.highflex = predict(object = ll.fit.highflex, newdata = test))  
  
#Then, we plot the scatterplot of x-y on test data:  
  
#First, we get the simple plot of test:  
  
ggplot(test) + geom\_point(mapping = aes(x = x, y = y))



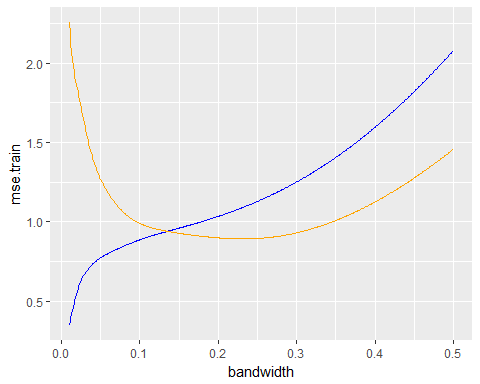
#Then, we add the true regression line:  
  
ggplot(test) + geom\_point(mapping = aes(x = x, y = y)) +   
 geom\_line(mapping = aes(x = x, y = y.true))



#And we can get the scatterplot of x-y with the predictions of the 2 models:  
  
ggplot(test) + geom\_point(mapping = aes(x = x, y = y)) +   
 geom\_line(mapping = aes(x = x, y = y.true)) +   
 geom\_line(mapping = aes(x = x, y = y.ll.lowflex), color = "red") +   
 geom\_line(mapping = aes(x = x, y = y.ll.highflex), color = "blue")



#We see that the predictions of fit.highflex are more variables than the predictions of fit.lowflex too because we observe more variations from the fit.highflex line than from the fit.lowflex line. The predictions of fit.lowflex have then the least bias.  
  
#Step 6:  
  
# We create a vector of bandwidth going from 0.01 to 0.5 with a step of 0.001:  
  
bw <- seq(0.01, 0.5, by = 0.001)  
  
#Step 7:  
  
# We estimate a local linear model on the training data with each bandwidth:  
  
llbw.fit <- lapply(X = bw, FUN = function(bw) {npreg(y ~ x, data = training, method = "ll", bws = bw)})  
  
#Step 8:  
  
#We compute for each bandwidth the MSE on the training data:  
  
mse.training <- function(fit.model){  
 predictions <- predict(object = fit.model, newdata = training)  
 training %>% mutate(squared.error = (y - predictions)^2) %>% summarize(mse = mean(squared.error))  
}  
mse.train.results <- unlist(lapply(X = llbw.fit, FUN = mse.training))  
  
#Step 9:  
  
#We compute for each bandwidth the MSE on the test data:  
  
mse.test <- function(fit.model){  
 predictions <- predict(object = fit.model, newdata = test)  
 test %>% mutate(squared.error = (y - predictions)^2) %>% summarize(mse = mean(squared.error))  
}  
mse.test.results <- unlist(lapply(X = llbw.fit, FUN = mse.test))  
  
#Step 10:  
  
#We draw on the same plot how the MSE on training data and test data changes when the bandwidth increases:  
  
mse.df <- tbl\_df(data.frame(bandwidth = bw, mse.train = mse.train.results, mse.test = mse.test.results))  
  
ggplot(mse.df) +   
 geom\_line(mapping = aes(x = bandwidth, y = mse.train), color = "blue") +  
 geom\_line(mapping = aes(x = bandwidth, y = mse.test), color = "orange")



# TASK 2C:

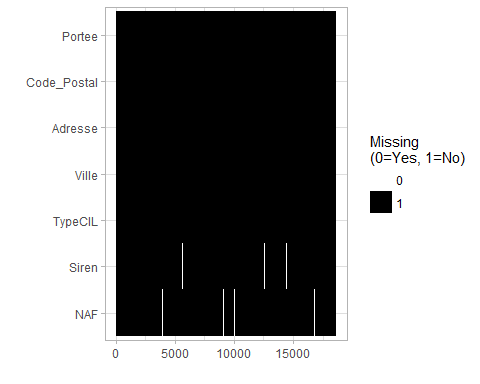
#Step 1:  
library(readr)  
CNIL <- read\_delim(file.choose(),";", escape\_double = FALSE, trim\_ws = TRUE)

## Parsed with column specification:  
## cols(  
## Siren = col\_character(),  
## Responsable = col\_character(),  
## Adresse = col\_character(),  
## Code\_Postal = col\_character(),  
## Ville = col\_character(),  
## NAF = col\_character(),  
## TypeCIL = col\_character(),  
## Portee = col\_character()  
## )

## Warning in rbind(names(probs), probs\_f): number of columns of result is not  
## a multiple of vector length (arg 1)

## Warning: 55 parsing failures.  
## row # A tibble: 5 x 5 col row col expected actual expected <int> <chr> <chr> <chr> actual 1 2302 <NA> 8 columns 9 columns file 2 2478 <NA> 8 columns 9 columns row 3 2642 <NA> 8 columns 9 columns col 4 3318 <NA> 8 columns 9 columns expected 5 3320 <NA> 8 columns 9 columns actual # ... with 1 more variables: file <chr>  
## ... ................. ... ................................. ........ ................................. ...... ................................. .... ................................. ... ................................. ... ................................. ........ ................................. ...... .......................................  
## See problems(...) for more details.

View(CNIL)  
  
  
#Step 2:  
library(tidyverse)  
  
#First, we clean the table by removing all the NA present in it:  
plot\_Missing <- function(data\_in, title = NULL){  
 temp\_df <- as.data.frame(ifelse(is.na(data\_in), 0, 1))  
 temp\_df <- temp\_df[,order(colSums(temp\_df))]  
 data\_temp <- expand.grid(list(x = 1:nrow(temp\_df), y = colnames(temp\_df)))  
 data\_temp$m <- as.vector(as.matrix(temp\_df))  
 data\_temp <- data.frame(x = unlist(data\_temp$x), y = unlist(data\_temp$y), m = unlist(data\_temp$m))  
 ggplot(data\_temp) + geom\_tile(aes(x=x, y=y, fill=factor(m))) + scale\_fill\_manual(values=c("white", "black"), name="Missing\n(0=Yes, 1=No)") + theme\_light() + ylab("") + xlab("") + ggtitle(title)  
}  
  
plot\_Missing(CNIL[,colSums(is.na(CNIL)) > 0])



CNIL2<-na.omit(CNIL)  
sum(is.na(CNIL2))

## [1] 0

#Then, we create a new column called "Departement" with the first 2 numbers of the codepost:  
department <- substr(CNIL2$Code\_Postal, start =1, stop=2)  
CNIL2$Departement <- department  
  
#The new column is added in the table:  
View(CNIL2)  
  
#We create the table with the number of CNIL by department:  
table <- as.data.frame(table(department))  
colnames(table) <- c("Department", "Number of CNIL")  
View(table)