R Notebook

This is an [R Markdown](http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

#Importing Libraries  
library(readr)   
library(plyr)   
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.5.1

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:plyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(ggplot2)

## Warning: package 'ggplot2' was built under R version 3.5.1

library(rpart)  
library(e1071)  
library(rpart.plot)  
library(caret)

## Loading required package: lattice

library(caret)  
library(Metrics)

## Warning: package 'Metrics' was built under R version 3.5.1

##   
## Attaching package: 'Metrics'

## The following objects are masked from 'package:caret':  
##   
## precision, recall

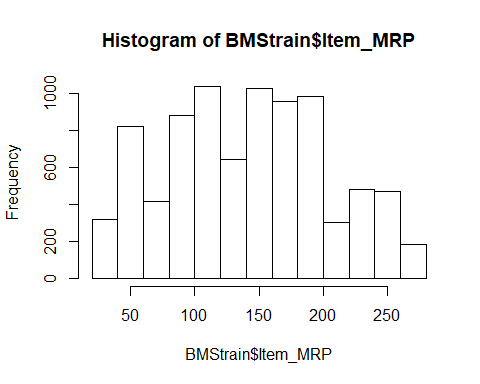
#..we are importing the train and test dataset  
BMStrain <- read.csv('BigmartTrain.csv')  
BMStest <- read.csv('BigmartTest.csv')  
str(BMStrain)

## 'data.frame': 8523 obs. of 12 variables:  
## $ Item\_Identifier : Factor w/ 1559 levels "DRA12","DRA24",..: 157 9 663 1122 1298 759 697 739 441 991 ...  
## $ Item\_Weight : num 9.3 5.92 17.5 19.2 8.93 ...  
## $ Item\_Fat\_Content : Factor w/ 5 levels "LF","low fat",..: 3 5 3 5 3 5 5 3 5 5 ...  
## $ Item\_Visibility : num 0.016 0.0193 0.0168 0 0 ...  
## $ Item\_Type : Factor w/ 16 levels "Baking Goods",..: 5 15 11 7 10 1 14 14 6 6 ...  
## $ Item\_MRP : num 249.8 48.3 141.6 182.1 53.9 ...  
## $ Outlet\_Identifier : Factor w/ 10 levels "OUT010","OUT013",..: 10 4 10 1 2 4 2 6 8 3 ...  
## $ Outlet\_Establishment\_Year: int 1999 2009 1999 1998 1987 2009 1987 1985 2002 2007 ...  
## $ Outlet\_Size : Factor w/ 4 levels "","High","Medium",..: 3 3 3 1 2 3 2 3 1 1 ...  
## $ Outlet\_Location\_Type : Factor w/ 3 levels "Tier 1","Tier 2",..: 1 3 1 3 3 3 3 3 2 2 ...  
## $ Outlet\_Type : Factor w/ 4 levels "Grocery Store",..: 2 3 2 1 2 3 2 4 2 2 ...  
## $ Item\_Outlet\_Sales : num 3735 443 2097 732 995 ...

str(BMStest)

## 'data.frame': 5681 obs. of 11 variables:  
## $ Item\_Identifier : Factor w/ 1543 levels "DRA12","DRA24",..: 1104 1068 1407 810 1185 462 605 267 669 171 ...  
## $ Item\_Weight : num 20.75 8.3 14.6 7.32 NA ...  
## $ Item\_Fat\_Content : Factor w/ 5 levels "LF","low fat",..: 3 4 3 3 5 5 5 3 5 3 ...  
## $ Item\_Visibility : num 0.00756 0.03843 0.09957 0.01539 0.1186 ...  
## $ Item\_Type : Factor w/ 16 levels "Baking Goods",..: 14 5 12 14 5 7 1 1 14 1 ...  
## $ Item\_MRP : num 107.9 87.3 241.8 155 234.2 ...  
## $ Outlet\_Identifier : Factor w/ 10 levels "OUT010","OUT013",..: 10 3 1 3 6 9 4 6 8 3 ...  
## $ Outlet\_Establishment\_Year: int 1999 2007 1998 2007 1985 1997 2009 1985 2002 2007 ...  
## $ Outlet\_Size : Factor w/ 4 levels "","High","Medium",..: 3 1 1 1 3 4 3 3 1 1 ...  
## $ Outlet\_Location\_Type : Factor w/ 3 levels "Tier 1","Tier 2",..: 1 2 3 2 3 1 3 3 2 2 ...  
## $ Outlet\_Type : Factor w/ 4 levels "Grocery Store",..: 2 2 1 2 4 2 3 4 2 2 ...

hist(BMStrain$Item\_MRP)



BMStrain1=BMStrain  
BMStrain1$Item\_Identifier <- NULL

#...pre processing data   
names(BMStrain1[,sapply(BMStrain[-1], is.factor)])

## [1] "Item\_Fat\_Content" "Item\_Type" "Outlet\_Identifier"   
## [4] "Outlet\_Size" "Outlet\_Location\_Type" "Outlet\_Type"

# converting data to numeric  
BMStrainnew <- BMStrain1  
str(BMStrainnew)

## 'data.frame': 8523 obs. of 11 variables:  
## $ Item\_Weight : num 9.3 5.92 17.5 19.2 8.93 ...  
## $ Item\_Fat\_Content : Factor w/ 5 levels "LF","low fat",..: 3 5 3 5 3 5 5 3 5 5 ...  
## $ Item\_Visibility : num 0.016 0.0193 0.0168 0 0 ...  
## $ Item\_Type : Factor w/ 16 levels "Baking Goods",..: 5 15 11 7 10 1 14 14 6 6 ...  
## $ Item\_MRP : num 249.8 48.3 141.6 182.1 53.9 ...  
## $ Outlet\_Identifier : Factor w/ 10 levels "OUT010","OUT013",..: 10 4 10 1 2 4 2 6 8 3 ...  
## $ Outlet\_Establishment\_Year: int 1999 2009 1999 1998 1987 2009 1987 1985 2002 2007 ...  
## $ Outlet\_Size : Factor w/ 4 levels "","High","Medium",..: 3 3 3 1 2 3 2 3 1 1 ...  
## $ Outlet\_Location\_Type : Factor w/ 3 levels "Tier 1","Tier 2",..: 1 3 1 3 3 3 3 3 2 2 ...  
## $ Outlet\_Type : Factor w/ 4 levels "Grocery Store",..: 2 3 2 1 2 3 2 4 2 2 ...  
## $ Item\_Outlet\_Sales : num 3735 443 2097 732 995 ...

BMStrainnew[,1:11] <- lapply(BMStrainnew[,1:11], as.numeric)

#..summary tells us about the data columns to be pre processed  
summary(BMStrain)

## Item\_Identifier Item\_Weight Item\_Fat\_Content Item\_Visibility   
## FDG33 : 10 Min. : 4.555 LF : 316 Min. :0.00000   
## FDW13 : 10 1st Qu.: 8.774 low fat: 112 1st Qu.:0.02699   
## DRE49 : 9 Median :12.600 Low Fat:5089 Median :0.05393   
## DRN47 : 9 Mean :12.858 reg : 117 Mean :0.06613   
## FDD38 : 9 3rd Qu.:16.850 Regular:2889 3rd Qu.:0.09459   
## FDF52 : 9 Max. :21.350 Max. :0.32839   
## (Other):8467 NA's :1463   
## Item\_Type Item\_MRP Outlet\_Identifier  
## Fruits and Vegetables:1232 Min. : 31.29 OUT027 : 935   
## Snack Foods :1200 1st Qu.: 93.83 OUT013 : 932   
## Household : 910 Median :143.01 OUT035 : 930   
## Frozen Foods : 856 Mean :140.99 OUT046 : 930   
## Dairy : 682 3rd Qu.:185.64 OUT049 : 930   
## Canned : 649 Max. :266.89 OUT045 : 929   
## (Other) :2994 (Other):2937   
## Outlet\_Establishment\_Year Outlet\_Size Outlet\_Location\_Type  
## Min. :1985 :2410 Tier 1:2388   
## 1st Qu.:1987 High : 932 Tier 2:2785   
## Median :1999 Medium:2793 Tier 3:3350   
## Mean :1998 Small :2388   
## 3rd Qu.:2004   
## Max. :2009   
##   
## Outlet\_Type Item\_Outlet\_Sales   
## Grocery Store :1083 Min. : 33.29   
## Supermarket Type1:5577 1st Qu.: 834.25   
## Supermarket Type2: 928 Median : 1794.33   
## Supermarket Type3: 935 Mean : 2181.29   
## 3rd Qu.: 3101.30   
## Max. :13086.97   
##

summary(BMStest)

## Item\_Identifier Item\_Weight Item\_Fat\_Content Item\_Visibility   
## DRF48 : 8 Min. : 4.555 LF : 206 Min. :0.00000   
## FDK57 : 8 1st Qu.: 8.645 low fat: 66 1st Qu.:0.02705   
## FDN52 : 8 Median :12.500 Low Fat:3396 Median :0.05415   
## FDP15 : 8 Mean :12.696 reg : 78 Mean :0.06568   
## FDQ60 : 8 3rd Qu.:16.700 Regular:1935 3rd Qu.:0.09346   
## FDW10 : 8 Max. :21.350 Max. :0.32364   
## (Other):5633 NA's :976   
## Item\_Type Item\_MRP Outlet\_Identifier  
## Snack Foods : 789 Min. : 31.99 OUT027 : 624   
## Fruits and Vegetables: 781 1st Qu.: 94.41 OUT013 : 621   
## Household : 638 Median :141.42 OUT035 : 620   
## Frozen Foods : 570 Mean :141.02 OUT046 : 620   
## Dairy : 454 3rd Qu.:186.03 OUT049 : 620   
## Baking Goods : 438 Max. :266.59 OUT045 : 619   
## (Other) :2011 (Other):1957   
## Outlet\_Establishment\_Year Outlet\_Size Outlet\_Location\_Type  
## Min. :1985 :1606 Tier 1:1592   
## 1st Qu.:1987 High : 621 Tier 2:1856   
## Median :1999 Medium:1862 Tier 3:2233   
## Mean :1998 Small :1592   
## 3rd Qu.:2004   
## Max. :2009   
##   
## Outlet\_Type   
## Grocery Store : 722   
## Supermarket Type1:3717   
## Supermarket Type2: 618   
## Supermarket Type3: 624   
##   
##   
##

#..reading the dimensions to check the number of columns  
dim(BMStrain)

## [1] 8523 12

dim(BMStest)

## [1] 5681 11

#replacing the missing values with median , so that outlier is taken care of  
BMStest$Item\_Outlet\_Sales <-1  
Totcomb <- rbind(BMStrain,BMStest)  
Totcomb$Item\_Weight[is.na(Totcomb$Item\_Weight)] <- median(Totcomb$Item\_Weight, na.rm =TRUE)  
table(is.na(Totcomb$Item\_Weight))

##   
## FALSE   
## 14204

#...replecing value 0 with median  
Totcomb$Item\_Visibility <- ifelse(Totcomb$Item\_Visibility ==0,median(Totcomb$Item\_Visibility),Totcomb$Item\_Visibility)  
  
Totcomb$Item\_Fat\_Content <- gsub("LF", "lowfat",Totcomb$Item\_Fat\_Content)  
Totcomb$Item\_Fat\_Content <- gsub("low fat", "lowfat",Totcomb$Item\_Fat\_Content)  
Totcomb$Item\_Fat\_Content <- gsub("Low Fat", "lowfat",Totcomb$Item\_Fat\_Content)  
Totcomb$Item\_Fat\_Content <- gsub("reg", "Regular",Totcomb$Item\_Fat\_Content)  
Totcomb$Item\_Fat\_Content <- as.factor(Totcomb$Item\_Fat\_Content)  
summary(Totcomb$Item\_Fat\_Content)

## lowfat Regular   
## 9185 5019

levels(Totcomb$Outlet\_Size)[1] <-"Other"  
summary (Totcomb$Outlet\_Size)

## Other High Medium Small   
## 4016 1553 4655 3980

summary(Totcomb)

## Item\_Identifier Item\_Weight Item\_Fat\_Content Item\_Visibility   
## DRA24 : 10 Min. : 4.555 lowfat :9185 Min. :0.003575   
## DRA59 : 10 1st Qu.: 9.300 Regular:5019 1st Qu.:0.033143   
## DRB25 : 10 Median :12.600 Median :0.054023   
## DRC25 : 10 Mean :12.760 Mean :0.069296   
## DRC27 : 10 3rd Qu.:16.000 3rd Qu.:0.094037   
## DRC36 : 10 Max. :21.350 Max. :0.328391   
## (Other):14144   
## Item\_Type Item\_MRP Outlet\_Identifier  
## Fruits and Vegetables:2013 Min. : 31.29 OUT027 :1559   
## Snack Foods :1989 1st Qu.: 94.01 OUT013 :1553   
## Household :1548 Median :142.25 OUT035 :1550   
## Frozen Foods :1426 Mean :141.00 OUT046 :1550   
## Dairy :1136 3rd Qu.:185.86 OUT049 :1550   
## Baking Goods :1086 Max. :266.89 OUT045 :1548   
## (Other) :5006 (Other):4894   
## Outlet\_Establishment\_Year Outlet\_Size Outlet\_Location\_Type  
## Min. :1985 Other :4016 Tier 1:3980   
## 1st Qu.:1987 High :1553 Tier 2:4641   
## Median :1999 Medium:4655 Tier 3:5583   
## Mean :1998 Small :3980   
## 3rd Qu.:2004   
## Max. :2009   
##   
## Outlet\_Type Item\_Outlet\_Sales  
## Grocery Store :1805 Min. : 1.0   
## Supermarket Type1:9294 1st Qu.: 1.0   
## Supermarket Type2:1546 Median : 559.3   
## Supermarket Type3:1559 Mean : 1309.3   
## 3rd Qu.: 2163.2   
## Max. :13087.0   
##

cor(BMStrainnew[c( "Item\_Weight", "Item\_Fat\_Content", "Item\_Visibility","Item\_Type","Item\_MRP","Outlet\_Identifier","Outlet\_Establishment\_Year","Outlet\_Size","Outlet\_Location\_Type","Outlet\_Type","Item\_Outlet\_Sales")])

## Item\_Weight Item\_Fat\_Content Item\_Visibility  
## Item\_Weight 1 NA NA  
## Item\_Fat\_Content NA 1.000000000 0.041356474  
## Item\_Visibility NA 0.041356474 1.000000000  
## Item\_Type NA -0.132051559 -0.035248829  
## Item\_MRP NA 0.010008212 -0.001314848  
## Outlet\_Identifier NA 0.006838315 -0.100439120  
## Outlet\_Establishment\_Year NA 0.002467100 -0.074833504  
## Outlet\_Size NA -0.002224724 -0.003107556  
## Outlet\_Location\_Type NA -0.006337699 -0.028099191  
## Outlet\_Type NA 0.001161787 -0.173467964  
## Item\_Outlet\_Sales NA 0.023202935 -0.128624612  
## Item\_Type Item\_MRP Outlet\_Identifier  
## Item\_Weight NA NA NA  
## Item\_Fat\_Content -0.132051559 0.0100082116 0.006838315  
## Item\_Visibility -0.035248829 -0.0013148480 -0.100439120  
## Item\_Type 1.000000000 0.0326507373 0.001655864  
## Item\_MRP 0.032650737 1.0000000000 0.003319360  
## Outlet\_Identifier 0.001655864 0.0033193595 1.000000000  
## Outlet\_Establishment\_Year 0.004970179 0.0050199162 0.079034734  
## Outlet\_Size -0.002611057 0.0083204311 0.473506167  
## Outlet\_Location\_Type 0.003084154 0.0002322058 -0.716176004  
## Outlet\_Type 0.003053107 -0.0019746190 0.099873248  
## Item\_Outlet\_Sales 0.017047670 0.5675744467 0.162324898  
## Outlet\_Establishment\_Year Outlet\_Size  
## Item\_Weight NA NA  
## Item\_Fat\_Content 0.002467100 -0.002224724  
## Item\_Visibility -0.074833504 -0.003107556  
## Item\_Type 0.004970179 -0.002611057  
## Item\_MRP 0.005019916 0.008320431  
## Outlet\_Identifier 0.079034734 0.473506167  
## Outlet\_Establishment\_Year 1.000000000 -0.199485044  
## Outlet\_Size -0.199485044 1.000000000  
## Outlet\_Location\_Type -0.089216390 -0.385596572  
## Outlet\_Type -0.122304143 0.158754822  
## Item\_Outlet\_Sales -0.049134970 0.057463704  
## Outlet\_Location\_Type Outlet\_Type  
## Item\_Weight NA NA  
## Item\_Fat\_Content -0.0063376994 0.001161787  
## Item\_Visibility -0.0280991915 -0.173467964  
## Item\_Type 0.0030841544 0.003053107  
## Item\_MRP 0.0002322058 -0.001974619  
## Outlet\_Identifier -0.7161760042 0.099873248  
## Outlet\_Establishment\_Year -0.0892163898 -0.122304143  
## Outlet\_Size -0.3855965724 0.158754822  
## Outlet\_Location\_Type 1.0000000000 0.467218662  
## Outlet\_Type 0.4672186616 1.000000000  
## Item\_Outlet\_Sales 0.0893667468 0.401522500  
## Item\_Outlet\_Sales  
## Item\_Weight NA  
## Item\_Fat\_Content 0.02320294  
## Item\_Visibility -0.12862461  
## Item\_Type 0.01704767  
## Item\_MRP 0.56757445  
## Outlet\_Identifier 0.16232490  
## Outlet\_Establishment\_Year -0.04913497  
## Outlet\_Size 0.05746370  
## Outlet\_Location\_Type 0.08936675  
## Outlet\_Type 0.40152250  
## Item\_Outlet\_Sales 1.00000000

#Parttitioning data as train and test again  
trainnew <-Totcomb[1:nrow(BMStrain),]  
testnew <- Totcomb[-(1:nrow(BMStrain)),]

#Train control parameters  
fitControl <- trainControl(method = "cv", number =5)  
cartGrid <- expand.grid(.cp=(1:50)\*0.01)

Decision\_trees <- train(Item\_Outlet\_Sales ~ ., data = trainnew, method = "rpart",trControl = fitControl, tuneGrid =cartGrid)

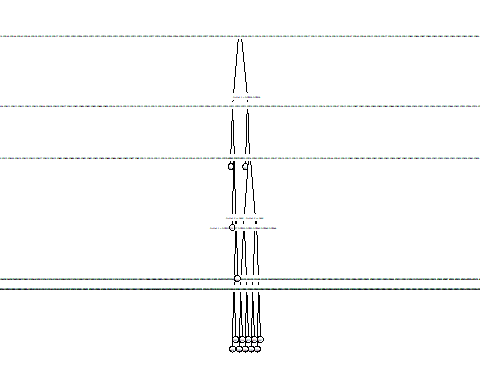
## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =  
## trainInfo, : There were missing values in resampled performance measures.

print(Decision\_trees)

## CART   
##   
## 8523 samples  
## 11 predictor  
##   
## No pre-processing  
## Resampling: Cross-Validated (5 fold)   
## Summary of sample sizes: 6817, 6819, 6819, 6818, 6819   
## Resampling results across tuning parameters:  
##   
## cp RMSE Rsquared MAE   
## 0.01 1122.605 0.5682400 805.1499  
## 0.02 1177.113 0.5246198 863.3224  
## 0.03 1199.957 0.5064682 878.8989  
## 0.04 1254.486 0.4600449 948.4940  
## 0.05 1254.486 0.4600449 948.4940  
## 0.06 1316.380 0.4055470 1019.3401  
## 0.07 1316.380 0.4055470 1019.3401  
## 0.08 1380.094 0.3457911 1059.8408  
## 0.09 1464.228 0.2641498 1115.4860  
## 0.10 1490.970 0.2370179 1131.3942  
## 0.11 1490.970 0.2370179 1131.3942  
## 0.12 1490.970 0.2370179 1131.3942  
## 0.13 1490.970 0.2370179 1131.3942  
## 0.14 1490.970 0.2370179 1131.3942  
## 0.15 1490.970 0.2370179 1131.3942  
## 0.16 1490.970 0.2370179 1131.3942  
## 0.17 1490.970 0.2370179 1131.3942  
## 0.18 1490.970 0.2370179 1131.3942  
## 0.19 1490.970 0.2370179 1131.3942  
## 0.20 1490.970 0.2370179 1131.3942  
## 0.21 1490.970 0.2370179 1131.3942  
## 0.22 1490.970 0.2370179 1131.3942  
## 0.23 1539.790 0.2290033 1179.9490  
## 0.24 1666.285 0.2105806 1309.4006  
## 0.25 1705.952 NaN 1346.5731  
## 0.26 1705.952 NaN 1346.5731  
## 0.27 1705.952 NaN 1346.5731  
## 0.28 1705.952 NaN 1346.5731  
## 0.29 1705.952 NaN 1346.5731  
## 0.30 1705.952 NaN 1346.5731  
## 0.31 1705.952 NaN 1346.5731  
## 0.32 1705.952 NaN 1346.5731  
## 0.33 1705.952 NaN 1346.5731  
## 0.34 1705.952 NaN 1346.5731  
## 0.35 1705.952 NaN 1346.5731  
## 0.36 1705.952 NaN 1346.5731  
## 0.37 1705.952 NaN 1346.5731  
## 0.38 1705.952 NaN 1346.5731  
## 0.39 1705.952 NaN 1346.5731  
## 0.40 1705.952 NaN 1346.5731  
## 0.41 1705.952 NaN 1346.5731  
## 0.42 1705.952 NaN 1346.5731  
## 0.43 1705.952 NaN 1346.5731  
## 0.44 1705.952 NaN 1346.5731  
## 0.45 1705.952 NaN 1346.5731  
## 0.46 1705.952 NaN 1346.5731  
## 0.47 1705.952 NaN 1346.5731  
## 0.48 1705.952 NaN 1346.5731  
## 0.49 1705.952 NaN 1346.5731  
## 0.50 1705.952 NaN 1346.5731  
##   
## RMSE was used to select the optimal model using the smallest value.  
## The final value used for the model was cp = 0.01.

Wholetree <- rpart(Item\_Outlet\_Sales ~ ., data = trainnew, control =rpart.control(cp=0.01))  
prp(Wholetree)

## Warning: labs do not fit even at cex 0.15, there may be some overplotting



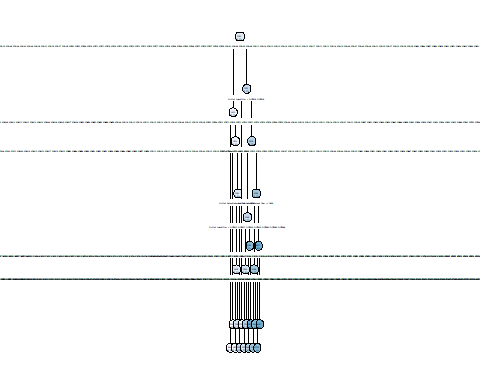
dectree1 <- rpart(Item\_Outlet\_Sales ~ ., data = trainnew)  
print(dectree1)

## n= 8523   
##   
## node), split, n, deviance, yval  
## \* denotes terminal node  
##   
## 1) root 8523 24817270000 2181.2890   
## 2) 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## 4) Item\_Identifier=DRB48,DRC01,DRC25,DRD01,DRD13,DRD27,DRD37,DRE03,DRE15,DRE27,DRF03,DRF15,DRF25,DRF51,DRG01,DRG15,DRG27,DRG39,DRH03,DRH11,DRH13,DRH15,DRH23,DRH25,DRH36,DRH49,DRH51,DRH59,DRI25,DRI37,DRI39,DRJ01,DRJ25,DRJ35,DRJ59,DRK12,DRK35,DRK49,DRL35,DRL37,DRL49,DRL59,DRM48,DRM49,DRN35,DRN36,DRN59,DRO59,DRY23,FDA01,FDA13,FDA14,FDA39,FDA40,FDA44,FDA49,FDA50,FDA57,FDB09,FDB16,FDB20,FDB26,FDB39,FDB41,FDB45,FDB51,FDC09,FDC10,FDC14,FDC20,FDC21,FDC26,FDC32,FDC40,FDC41,FDC53,FDC58,FDC59,FDC60,FDD08,FDD16,FDD28,FDD32,FDD51,FDD53,FDD58,FDE09,FDE23,FDE29,FDE32,FDE33,FDE35,FDE40,FDE41,FDE44,FDE51,FDE53,FDE56,FDE59,FDF08,FDF09,FDF38,FDF45,FDF58,FDG10,FDG20,FDG22,FDG29,FDG31,FDG34,FDG40,FDG44,FDG50,FDG52,FDG57,FDG59,FDH02,FDH04,FDH09,FDH12,FDH28,FDH31,FDH33,FDH40,FDH45,FDH48,FDH52,FDH53,FDI12,FDI16,FDI21,FDI27,FDI28,FDI48,FDI60,FDJ03,FDJ09,FDJ14,FDJ16,FDJ32,FDJ45,FDJ50,FDK04,FDK08,FDK14,FDK24,FDK36,FDK55,FDL12,FDL15,FDL16,FDL21,FDL25,FDL27,FDL32,FDL36,FDL40,FDL46,FDL48,FDL52,FDM02,FDM04,FDM12,FDM13,FDM22,FDM32,FDM38,FDM44,FDM50,FDM56,FDM57,FDM60,FDN13,FDN24,FDN25,FDN28,FDN49,FDN50,FDO04,FDO10,FDO15,FDO19,FDO22,FDO28,FDO32,FDO38,FDO45,FDO49,FDO51,FDO56,FDO60,FDP01,FDP04,FDP12,FDP13,FDP20,FDP22,FDP26,FDP31,FDP36,FDP38,FDP39,FDP49,FDP56,FDQ04,FDQ08,FDQ20,FDQ22,FDQ26,FDQ31,FDQ34,FDQ36,FDQ47,FDQ51,FDQ60,FDR07,FDR13,FDR14,FDR20,FDR36,FDR43,FDR49,FDR60,FDS03,FDS09,FDS19,FDS21,FDS22,FDS24,FDS28,FDS35,FDS40,FDS51,FDT02,FDT04,FDT10,FDT20,FDT22,FDT23,FDT36,FDT43,FDT45,FDT46,FDT50,FDT51,FDT56,FDU10,FDU15,FDU16,FDU21,FDU25,FDU26,FDU27,FDU33,FDU39,FDU47,FDU48,FDV08,FDV10,FDV14,FDV16,FDV27,FDV28,FDV32,FDV34,FDV38,FDV40,FDV43,FDV47,FDV48,FDV56,FDW07,FDW09,FDW11,FDW13,FDW23,FDW24,FDW25,FDW32,FDW35,FDW36,FDW38,FDW46,FDW48,FDW59,FDX03,FDX04,FDX10,FDX14,FDX21,FDX23,FDX27,FDX38,FDX40,FDX46,FDX59,FDY07,FDY09,FDY11,FDY12,FDY13,FDY20,FDY24,FDY35,FDY36,FDY40,FDY43,FDY52,FDY59,FDZ02,FDZ04,FDZ07,FDZ08,FDZ13,FDZ21,FDZ22,FDZ27,FDZ32,FDZ37,FDZ39,FDZ40,FDZ44,FDZ57,FDZ60,NCA06,NCA18,NCA53,NCB55,NCC55,NCD06,NCD07,NCD19,NCD42,NCD43,NCD55,NCE06,NCE19,NCE31,NCF19,NCF55,NCG43,NCI31,NCI43,NCJ17,NCJ19,NCJ29,NCK05,NCK06,NCK17,NCK31,NCL05,NCL07,NCL41,NCM07,NCM17,NCM30,NCM41,NCN17,NCN29,NCN30,NCN41,NCN53,NCN54,NCO02,NCO06,NCO14,NCO54,NCO55,NCP02,NCP17,NCP29,NCP30,NCP41,NCP50,NCP55,NCQ30,NCQ38,NCQ43,NCR06,NCR18,NCR29,NCR30,NCR42,NCT30,NCT54,NCU05,NCV30,NCW54,NCX05,NCY05,NCY17,NCY29,NCY41,NCZ05,NCZ17 2146 747830200 860.6796 \*  
## 5) Item\_Identifier=DRA12,DRA24,DRB01,DRB25,DRC12,DRC13,DRD12,DRD24,DRD25,DRE12,DRE13,DRE25,DRE37,DRF01,DRF27,DRF48,DRF49,DRG11,DRG23,DRG37,DRG51,DRH37,DRH39,DRI11,DRI47,DRI49,DRJ13,DRJ24,DRJ49,DRK01,DRK11,DRK39,DRK59,DRL23,DRL47,DRL60,DRM59,DRN11,DRN37,DRO47,DRP35,DRZ11,FDA02,FDA03,FDA07,FDA08,FDA10,FDA11,FDA19,FDA23,FDA25,FDA28,FDA31,FDA36,FDA37,FDA38,FDA51,FDA58,FDB04,FDB08,FDB10,FDB12,FDB14,FDB22,FDB28,FDB29,FDB32,FDB34,FDB35,FDB36,FDB47,FDB49,FDB50,FDB58,FDC11,FDC15,FDC16,FDC28,FDC29,FDC37,FDC38,FDC45,FDC48,FDC50,FDC51,FDC52,FDC56,FDC57,FDD02,FDD04,FDD05,FDD10,FDD35,FDD36,FDD38,FDD41,FDD45,FDD46,FDD48,FDD52,FDD57,FDD59,FDE02,FDE05,FDE08,FDE10,FDE14,FDE21,FDE22,FDE24,FDE26,FDE46,FDE47,FDF02,FDF10,FDF16,FDF24,FDF26,FDF28,FDF29,FDF32,FDF33,FDF35,FDF46,FDF52,FDF59,FDG02,FDG04,FDG05,FDG12,FDG24,FDG33,FDG35,FDG38,FDG41,FDG46,FDG53,FDG56,FDG58,FDH10,FDH14,FDH16,FDH17,FDH20,FDH21,FDH22,FDH26,FDH27,FDH32,FDH35,FDH38,FDH44,FDH46,FDH47,FDH56,FDH57,FDH58,FDI02,FDI05,FDI14,FDI32,FDI40,FDI44,FDI52,FDI53,FDI56,FDI58,FDJ02,FDJ04,FDJ07,FDJ10,FDJ20,FDJ22,FDJ27,FDJ34,FDJ36,FDJ52,FDJ53,FDJ56,FDK02,FDK15,FDK16,FDK20,FDK27,FDK38,FDK41,FDK43,FDK44,FDK45,FDK48,FDK58,FDK60,FDL02,FDL04,FDL09,FDL10,FDL14,FDL20,FDL22,FDL28,FDL33,FDL38,FDL43,FDL50,FDL56,FDM01,FDM03,FDM09,FDM14,FDM16,FDM24,FDM28,FDM34,FDM40,FDM45,FDM46,FDM51,FDM58,FDN01,FDN08,FDN10,FDN12,FDN15,FDN16,FDN21,FDN27,FDN31,FDN33,FDN46,FDN48,FDN52,FDO01,FDO08,FDO13,FDO16,FDO23,FDO27,FDO31,FDO33,FDO40,FDO44,FDO50,FDO57,FDP03,FDP10,FDP19,FDP24,FDP32,FDP37,FDP40,FDP44,FDP46,FDP51,FDP57,FDP59,FDP60,FDQ03,FDQ09,FDQ13,FDQ14,FDQ15,FDQ16,FDQ23,FDQ27,FDQ32,FDQ46,FDQ48,FDQ49,FDQ56,FDQ57,FDQ58,FDQ59,FDR02,FDR04,FDR08,FDR10,FDR12,FDR15,FDR22,FDR24,FDR26,FDR27,FDR33,FDR40,FDR44,FDR46,FDR48,FDR57,FDR58,FDS04,FDS07,FDS08,FDS12,FDS14,FDS15,FDS23,FDS25,FDS27,FDS32,FDS33,FDS34,FDS37,FDS45,FDS46,FDS47,FDS48,FDS49,FDS52,FDS57,FDS59,FDS60,FDT03,FDT09,FDT15,FDT24,FDT25,FDT26,FDT33,FDT34,FDT35,FDT38,FDT39,FDT40,FDT44,FDT47,FDT49,FDT58,FDT60,FDU04,FDU07,FDU08,FDU09,FDU11,FDU13,FDU20,FDU24,FDU28,FDU32,FDU34,FDU35,FDU36,FDU37,FDU40,FDU45,FDU46,FDU49,FDU50,FDU52,FDU57,FDV04,FDV07,FDV09,FDV11,FDV12,FDV13,FDV15,FDV20,FDV21,FDV23,FDV24,FDV31,FDV46,FDV50,FDV51,FDV52,FDW01,FDW03,FDW08,FDW12,FDW14,FDW16,FDW19,FDW20,FDW21,FDW27,FDW33,FDW37,FDW39,FDW40,FDW44,FDW47,FDW50,FDW58,FDX01,FDX08,FDX15,FDX16,FDX24,FDX28,FDX32,FDX37,FDX43,FDX44,FDX47,FDX48,FDX50,FDX57,FDX60,FDY01,FDY03,FDY08,FDY10,FDY15,FDY22,FDY27,FDY32,FDY47,FDY48,FDY49,FDY50,FDY57,FDZ01,FDZ10,FDZ15,FDZ28,FDZ33,FDZ35,FDZ46,FDZ47,FDZ48,FDZ51,FDZ52,FDZ58,NCA05,NCA30,NCA54,NCB18,NCB19,NCB42,NCB54,NCC07,NCC18,NCC30,NCC31,NCC42,NCD30,NCD54,NCE07,NCE30,NCE54,NCF06,NCF07,NCF30,NCF31,NCF42,NCF43,NCF54,NCG18,NCG19,NCG30,NCG42,NCH07,NCH29,NCH30,NCH43,NCH54,NCH55,NCI17,NCI29,NCI54,NCJ06,NCJ18,NCJ30,NCJ42,NCJ43,NCK29,NCK53,NCK54,NCL18,NCL19,NCL29,NCM06,NCM18,NCM26,NCM29,NCM31,NCM42,NCM43,NCM53,NCM54,NCM55,NCN07,NCN14,NCN19,NCN26,NCN43,NCO05,NCO17,NCO26,NCO30,NCO41,NCO43,NCP06,NCP43,NCP54,NCQ05,NCQ18,NCQ29,NCQ42,NCR41,NCR54,NCS05,NCS17,NCS18,NCS30,NCS38,NCS41,NCS42,NCT06,NCT29,NCT41,NCT42,NCT53,NCU17,NCU18,NCU53,NCV05,NCV29,NCV41,NCV42,NCV54,NCW06,NCW29,NCW53,NCX29,NCX53,NCX54,NCY53,NCZ29,NCZ30,NCZ41 2928 3465718000 1830.8450   
## 10) Outlet\_Type=Grocery Store 390 16071310 334.0711 \*  
## 11) Outlet\_Type=Supermarket Type1,Supermarket Type2,Supermarket Type3 2538 2441655000 2060.8460   
## 22) Outlet\_Establishment\_Year>=1986 2238 1744384000 1928.5800   
## 44) Item\_Identifier=DRB25,DRC13,DRD12,DRE12,DRE13,DRE25,DRF01,DRF48,DRF49,DRG11,DRG23,DRG37,DRH39,DRI11,DRI49,DRK01,DRK11,DRK39,DRL23,DRL47,DRO47,DRZ11,FDA02,FDA07,FDA10,FDA11,FDA23,FDA25,FDA51,FDB04,FDB12,FDB14,FDB29,FDB32,FDB34,FDB35,FDB49,FDB50,FDC11,FDC16,FDC28,FDC45,FDC48,FDC50,FDD10,FDD35,FDD36,FDD38,FDD41,FDD45,FDD52,FDD57,FDD59,FDE02,FDE10,FDE14,FDE21,FDE24,FDE46,FDF02,FDF24,FDF28,FDF35,FDF46,FDF59,FDG02,FDG24,FDG38,FDG41,FDG53,FDG56,FDH10,FDH16,FDH17,FDH20,FDH26,FDH46,FDH47,FDH56,FDH57,FDI02,FDI05,FDI40,FDI44,FDI52,FDI53,FDI56,FDI58,FDJ02,FDJ04,FDJ07,FDJ10,FDJ20,FDJ27,FDJ34,FDJ36,FDJ53,FDJ56,FDK15,FDK16,FDK27,FDK41,FDK45,FDK48,FDK60,FDL04,FDL10,FDL22,FDL38,FDL43,FDL50,FDL56,FDM01,FDM03,FDM09,FDM14,FDM16,FDM34,FDM40,FDM46,FDM51,FDN01,FDN08,FDN10,FDN12,FDN15,FDN16,FDN27,FDN33,FDN48,FDO01,FDO23,FDO27,FDO31,FDO33,FDO44,FDO50,FDP10,FDP24,FDP32,FDP40,FDP44,FDP46,FDP57,FDP59,FDP60,FDQ09,FDQ13,FDQ15,FDQ46,FDQ48,FDQ49,FDQ56,FDQ58,FDQ59,FDR04,FDR08,FDR24,FDR40,FDR44,FDR48,FDR58,FDS07,FDS08,FDS14,FDS32,FDS33,FDS34,FDS37,FDS47,FDS49,FDS52,FDT03,FDT24,FDT34,FDT35,FDT38,FDT40,FDT44,FDT47,FDT49,FDU04,FDU08,FDU09,FDU11,FDU32,FDU34,FDU36,FDU37,FDU46,FDU50,FDV04,FDV07,FDV13,FDV24,FDV50,FDV51,FDW01,FDW08,FDW12,FDW14,FDW16,FDW19,FDW21,FDW33,FDW37,FDW50,FDW58,FDX01,FDX24,FDX28,FDX37,FDX44,FDX50,FDX57,FDX60,FDY01,FDY03,FDY08,FDY47,FDY48,FDY50,FDY57,FDZ01,FDZ28,FDZ33,FDZ46,FDZ47,FDZ48,FDZ51,FDZ52,NCA05,NCB18,NCB19,NCB42,NCB54,NCC07,NCD30,NCE07,NCE54,NCF07,NCF31,NCG42,NCH29,NCH30,NCH43,NCH55,NCI17,NCI29,NCI54,NCJ06,NCJ43,NCK54,NCM18,NCM42,NCM53,NCN07,NCO05,NCO43,NCR41,NCS17,NCS38,NCS42,NCT29,NCT42,NCU17,NCU53,NCV41,NCV54,NCW29,NCX54,NCY53,NCZ30,NCZ41 1178 561443800 1605.8590 \*  
## 45) Item\_Identifier=DRA12,DRA24,DRB01,DRC12,DRD24,DRD25,DRE37,DRF27,DRG51,DRH37,DRI47,DRJ13,DRJ24,DRJ49,DRK59,DRL60,DRM59,DRN11,DRN37,DRP35,FDA03,FDA08,FDA19,FDA28,FDA31,FDA36,FDA37,FDA38,FDA58,FDB08,FDB10,FDB22,FDB28,FDB36,FDB47,FDB58,FDC15,FDC29,FDC37,FDC38,FDC51,FDC52,FDC56,FDC57,FDD02,FDD04,FDD05,FDD46,FDD48,FDE05,FDE08,FDE22,FDE26,FDE47,FDF10,FDF16,FDF26,FDF29,FDF32,FDF33,FDF52,FDG04,FDG05,FDG12,FDG33,FDG35,FDG46,FDG58,FDH14,FDH21,FDH22,FDH27,FDH32,FDH35,FDH38,FDH44,FDH58,FDI14,FDI32,FDJ22,FDJ52,FDK02,FDK20,FDK38,FDK43,FDK44,FDK58,FDL02,FDL09,FDL14,FDL20,FDL28,FDL33,FDM24,FDM28,FDM45,FDM58,FDN21,FDN31,FDN46,FDO08,FDO13,FDO16,FDO40,FDO57,FDP03,FDP19,FDP37,FDP51,FDQ03,FDQ14,FDQ16,FDQ23,FDQ27,FDQ32,FDQ57,FDR02,FDR10,FDR12,FDR15,FDR22,FDR26,FDR27,FDR33,FDR46,FDR57,FDS04,FDS12,FDS15,FDS23,FDS25,FDS27,FDS45,FDS46,FDS48,FDS57,FDS59,FDS60,FDT09,FDT15,FDT25,FDT26,FDT33,FDT39,FDT58,FDT60,FDU07,FDU13,FDU20,FDU24,FDU28,FDU35,FDU40,FDU45,FDU49,FDU52,FDU57,FDV09,FDV11,FDV12,FDV15,FDV20,FDV21,FDV23,FDV31,FDV46,FDV52,FDW03,FDW20,FDW27,FDW39,FDW40,FDW44,FDW47,FDX08,FDX15,FDX16,FDX32,FDX43,FDX47,FDX48,FDY10,FDY15,FDY22,FDY27,FDY32,FDY49,FDZ10,FDZ15,FDZ35,FDZ58,NCA30,NCA54,NCC18,NCC30,NCC31,NCC42,NCD54,NCE30,NCF06,NCF30,NCF42,NCF43,NCF54,NCG18,NCG19,NCG30,NCH07,NCH54,NCJ18,NCJ30,NCJ42,NCK29,NCK53,NCL18,NCL19,NCL29,NCM06,NCM26,NCM29,NCM31,NCM43,NCM54,NCM55,NCN14,NCN19,NCN26,NCN43,NCO17,NCO26,NCO30,NCO41,NCP06,NCP43,NCP54,NCQ05,NCQ18,NCQ29,NCQ42,NCR54,NCS05,NCS18,NCS30,NCS41,NCT06,NCT41,NCT53,NCU18,NCV05,NCV29,NCV42,NCW06,NCW53,NCX29,NCX53,NCZ29 1060 923906600 2287.2280 \*  
## 23) Outlet\_Establishment\_Year< 1986 300 366045000 3047.5490 \*  
## 3) Item\_Identifier=DRA59,DRB13,DRB24,DRC24,DRC27,DRC36,DRC49,DRD15,DRD49,DRD60,DRE01,DRE48,DRE49,DRE60,DRF13,DRF23,DRF36,DRF37,DRF60,DRG03,DRG13,DRG25,DRG36,DRG48,DRG49,DRH01,DRI01,DRI03,DRI13,DRI23,DRI51,DRI59,DRJ11,DRJ23,DRJ37,DRJ39,DRJ47,DRJ51,DRK13,DRK23,DRK37,DRK47,DRL01,DRL11,DRM11,DRM23,DRM35,DRM37,DRM47,DRN47,DRO35,DRP47,DRQ35,DRZ24,FDA04,FDA09,FDA15,FDA16,FDA20,FDA21,FDA22,FDA26,FDA27,FDA32,FDA33,FDA34,FDA35,FDA43,FDA45,FDA46,FDA47,FDA48,FDA52,FDA55,FDA56,FDB02,FDB03,FDB05,FDB11,FDB15,FDB17,FDB21,FDB23,FDB27,FDB33,FDB37,FDB38,FDB40,FDB44,FDB46,FDB52,FDB53,FDB56,FDB57,FDB59,FDB60,FDC02,FDC03,FDC04,FDC05,FDC08,FDC17,FDC22,FDC23,FDC33,FDC34,FDC35,FDC39,FDC44,FDC46,FDC47,FDD03,FDD09,FDD11,FDD14,FDD17,FDD20,FDD21,FDD22,FDD23,FDD26,FDD29,FDD33,FDD34,FDD39,FDD40,FDD44,FDD47,FDD50,FDD56,FDE04,FDE11,FDE16,FDE17,FDE20,FDE28,FDE34,FDE36,FDE38,FDE39,FDE45,FDE50,FDE52,FDE57,FDE58,FDF04,FDF05,FDF11,FDF12,FDF14,FDF17,FDF20,FDF21,FDF22,FDF34,FDF39,FDF40,FDF41,FDF44,FDF47,FDF50,FDF53,FDF56,FDF57,FDG08,FDG09,FDG14,FDG16,FDG17,FDG21,FDG26,FDG28,FDG32,FDG45,FDG47,FDG60,FDH05,FDH08,FDH19,FDH24,FDH34,FDH41,FDH50,FDH60,FDI04,FDI07,FDI08,FDI09,FDI10,FDI15,FDI19,FDI20,FDI22,FDI24,FDI26,FDI33,FDI34,FDI35,FDI36,FDI38,FDI41,FDI45,FDI46,FDI50,FDI57,FDJ08,FDJ12,FDJ15,FDJ21,FDJ26,FDJ28,FDJ33,FDJ38,FDJ40,FDJ41,FDJ44,FDJ46,FDJ48,FDJ55,FDJ57,FDJ58,FDJ60,FDK03,FDK09,FDK10,FDK21,FDK22,FDK25,FDK26,FDK28,FDK32,FDK33,FDK34,FDK40,FDK46,FDK50,FDK51,FDK52,FDK56,FDK57,FDL03,FDL08,FDL13,FDL24,FDL26,FDL34,FDL39,FDL44,FDL45,FDL51,FDL57,FDL58,FDM08,FDM10,FDM15,FDM20,FDM21,FDM25,FDM27,FDM33,FDM36,FDM39,FDM52,FDN02,FDN03,FDN04,FDN09,FDN20,FDN22,FDN23,FDN32,FDN34,FDN38,FDN39,FDN40,FDN44,FDN45,FDN51,FDN56,FDN57,FDN58,FDN60,FDO03,FDO09,FDO11,FDO12,FDO20,FDO21,FDO24,FDO25,FDO34,FDO36,FDO37,FDO39,FDO46,FDO48,FDO52,FDO58,FDP07,FDP08,FDP09,FDP11,FDP15,FDP16,FDP21,FDP23,FDP25,FDP27,FDP28,FDP33,FDP34,FDP45,FDP48,FDP52,FDP58,FDQ01,FDQ07,FDQ10,FDQ11,FDQ12,FDQ19,FDQ21,FDQ24,FDQ25,FDQ28,FDQ33,FDQ37,FDQ39,FDQ40,FDQ44,FDQ45,FDQ52,FDQ55,FDR01,FDR03,FDR09,FDR11,FDR16,FDR19,FDR21,FDR23,FDR25,FDR28,FDR31,FDR32,FDR34,FDR35,FDR37,FDR39,FDR45,FDR47,FDR51,FDR52,FDR55,FDR56,FDR59,FDS01,FDS02,FDS10,FDS11,FDS13,FDS16,FDS20,FDS26,FDS31,FDS36,FDS39,FDS43,FDS44,FDS50,FDS55,FDS56,FDS58,FDT01,FDT07,FDT08,FDT11,FDT12,FDT13,FDT14,FDT16,FDT19,FDT21,FDT27,FDT28,FDT31,FDT32,FDT37,FDT48,FDT52,FDT55,FDT57,FDT59,FDU01,FDU02,FDU03,FDU12,FDU14,FDU19,FDU22,FDU23,FDU31,FDU38,FDU43,FDU44,FDU51,FDU55,FDU56,FDU58,FDU59,FDU60,FDV01,FDV02,FDV03,FDV19,FDV22,FDV25,FDV26,FDV33,FDV35,FDV36,FDV37,FDV39,FDV44,FDV45,FDV49,FDV55,FDV57,FDV58,FDV59,FDV60,FDW02,FDW04,FDW10,FDW15,FDW22,FDW26,FDW28,FDW31,FDW34,FDW43,FDW45,FDW49,FDW51,FDW52,FDW55,FDW56,FDW57,FDW60,FDX02,FDX07,FDX09,FDX11,FDX12,FDX13,FDX19,FDX20,FDX22,FDX25,FDX26,FDX31,FDX33,FDX34,FDX35,FDX36,FDX39,FDX45,FDX49,FDX51,FDX52,FDX55,FDX56,FDX58,FDY02,FDY04,FDY14,FDY16,FDY19,FDY21,FDY25,FDY26,FDY28,FDY31,FDY33,FDY34,FDY37,FDY38,FDY39,FDY44,FDY45,FDY46,FDY51,FDY55,FDY56,FDY58,FDY60,FDZ03,FDZ09,FDZ12,FDZ14,FDZ16,FDZ19,FDZ20,FDZ23,FDZ25,FDZ26,FDZ31,FDZ34,FDZ36,FDZ38,FDZ43,FDZ45,FDZ49,FDZ50,FDZ55,FDZ56,FDZ59,NCA17,NCA29,NCA41,NCA42,NCB06,NCB07,NCB30,NCB31,NCB43,NCC06,NCC19,NCC43,NCC54,NCD18,NCD31,NCE18,NCE42,NCE43,NCE55,NCF18,NCG06,NCG07,NCG54,NCG55,NCH06,NCH18,NCH42,NCI06,NCI18,NCI30,NCI42,NCI55,NCJ05,NCJ31,NCJ54,NCK07,NCK18,NCK19,NCK30,NCK42,NCL06,NCL17,NCL30,NCL31,NCL42,NCL53,NCL54,NCL55,NCM05,NCM19,NCN05,NCN06,NCN18,NCN42,NCN55,NCO07,NCO18,NCO29,NCO42,NCO53,NCP05,NCP14,NCP18,NCP42,NCP53,NCQ02,NCQ06,NCQ17,NCQ41,NCQ50,NCQ53,NCQ54,NCR05,NCR17,NCR38,NCR50,NCR53,NCS06,NCS29,NCS53,NCS54,NCT05,NCT17,NCT18,NCU06,NCU29,NCU30,NCU41,NCU42,NCU54,NCV06,NCV17,NCV18,NCV53,NCW05,NCW17,NCW18,NCW30,NCW41,NCW42,NCX06,NCX17,NCX18,NCX30,NCX41,NCX42,NCY06,NCY18,NCY30,NCY42,NCY54,NCZ06,NCZ18,NCZ42,NCZ53,NCZ54 3449 12181230000 3300.4900   
## 6) Outlet\_Identifier=OUT010,OUT019 362 33504210 505.0810 \*  
## 7) Outlet\_Identifier=OUT013,OUT017,OUT018,OUT027,OUT035,OUT045,OUT046,OUT049 3087 8987219000 3628.2970   
## 14) Item\_Identifier=DRA59,DRB13,DRB24,DRC24,DRC27,DRC36,DRC49,DRD15,DRD49,DRD60,DRE48,DRE49,DRF13,DRF23,DRF37,DRG03,DRG13,DRG36,DRG48,DRH01,DRI01,DRI03,DRI13,DRI23,DRJ11,DRJ23,DRJ37,DRJ47,DRJ51,DRK13,DRK47,DRL11,DRM11,DRM23,DRM47,DRN47,DRO35,DRP47,DRQ35,DRZ24,FDA09,FDA20,FDA21,FDA27,FDA32,FDA33,FDA35,FDA43,FDA45,FDA46,FDA47,FDA52,FDA56,FDB02,FDB03,FDB33,FDB38,FDB40,FDB44,FDB46,FDB52,FDB53,FDB56,FDB59,FDB60,FDC03,FDC04,FDC05,FDC08,FDC22,FDC23,FDC33,FDC34,FDC35,FDC39,FDC44,FDD03,FDD09,FDD11,FDD14,FDD20,FDD21,FDD22,FDD23,FDD26,FDD34,FDD40,FDD47,FDD50,FDD56,FDE04,FDE17,FDE20,FDE34,FDE38,FDE39,FDE45,FDE50,FDE52,FDE57,FDE58,FDF11,FDF12,FDF14,FDF17,FDF22,FDF34,FDF44,FDF47,FDF50,FDF53,FDF56,FDF57,FDG08,FDG09,FDG16,FDG21,FDG26,FDG28,FDG32,FDH19,FDH24,FDH41,FDH50,FDH60,FDI04,FDI07,FDI08,FDI10,FDI26,FDI33,FDI34,FDI36,FDI41,FDI45,FDI46,FDJ08,FDJ12,FDJ21,FDJ26,FDJ28,FDJ33,FDJ38,FDJ40,FDJ41,FDJ44,FDJ46,FDJ58,FDJ60,FDK10,FDK21,FDK22,FDK26,FDK32,FDK34,FDK46,FDK50,FDK56,FDL03,FDL08,FDL13,FDL26,FDL34,FDL39,FDL44,FDL45,FDL51,FDM08,FDM10,FDM15,FDM25,FDM27,FDM36,FDM52,FDN02,FDN04,FDN09,FDN20,FDN22,FDN23,FDN32,FDN39,FDN40,FDN44,FDN45,FDN56,FDN57,FDN60,FDO12,FDO20,FDO21,FDO24,FDO34,FDO36,FDO46,FDO48,FDO52,FDO58,FDP07,FDP08,FDP11,FDP23,FDP27,FDP28,FDP34,FDP45,FDP58,FDQ01,FDQ07,FDQ10,FDQ11,FDQ12,FDQ21,FDQ25,FDQ28,FDQ40,FDQ44,FDQ45,FDQ55,FDR01,FDR09,FDR11,FDR19,FDR21,FDR28,FDR31,FDR39,FDR47,FDR51,FDR52,FDR55,FDS01,FDS10,FDS13,FDS16,FDS20,FDS31,FDS36,FDS39,FDS43,FDS50,FDS55,FDS58,FDT01,FDT07,FDT08,FDT11,FDT12,FDT13,FDT14,FDT19,FDT27,FDT28,FDT31,FDT32,FDT48,FDT52,FDT55,FDT59,FDU03,FDU19,FDU22,FDU23,FDU31,FDU43,FDU44,FDU58,FDU59,FDV01,FDV02,FDV03,FDV19,FDV22,FDV33,FDV35,FDV36,FDV37,FDV39,FDV44,FDV55,FDV58,FDV60,FDW02,FDW04,FDW15,FDW26,FDW28,FDW31,FDW43,FDW45,FDW49,FDW51,FDW52,FDW57,FDW60,FDX07,FDX09,FDX11,FDX19,FDX20,FDX25,FDX26,FDX33,FDX34,FDX45,FDX51,FDX52,FDX55,FDY04,FDY19,FDY31,FDY33,FDY34,FDY37,FDY44,FDY45,FDY60,FDZ03,FDZ09,FDZ12,FDZ14,FDZ19,FDZ23,FDZ25,FDZ31,FDZ36,FDZ45,FDZ49,FDZ55,FDZ56,FDZ59,NCA17,NCA29,NCA41,NCA42,NCB06,NCB30,NCB31,NCC06,NCC43,NCD31,NCE43,NCG06,NCG07,NCG54,NCG55,NCH06,NCI06,NCI18,NCI30,NCI42,NCI55,NCJ05,NCJ31,NCK07,NCK18,NCK19,NCK30,NCL17,NCL30,NCL31,NCL53,NCL54,NCM19,NCN05,NCN06,NCN18,NCN42,NCO07,NCO18,NCO29,NCO42,NCO53,NCP05,NCP14,NCP18,NCP42,NCQ02,NCQ17,NCQ41,NCR05,NCR17,NCS06,NCS53,NCT05,NCT17,NCU06,NCU29,NCU30,NCV06,NCV17,NCV18,NCW05,NCW17,NCW30,NCW41,NCX06,NCX17,NCX18,NCX41,NCX42,NCY06,NCY18,NCY30,NCY42,NCY54,NCZ06,NCZ53 2022 3890787000 3146.1900   
## 28) Outlet\_Identifier=OUT013,OUT017,OUT018,OUT035,OUT045,OUT046,OUT049 1769 2754554000 2943.4870   
## 56) Item\_Identifier=DRA59,DRB13,DRC36,DRC49,DRE48,DRE49,DRF13,DRF23,DRG03,DRG48,DRI23,DRJ37,DRJ47,DRM23,DRO35,DRQ35,DRZ24,FDA33,FDA35,FDA43,FDA45,FDA47,FDA52,FDA56,FDB02,FDB38,FDB40,FDB44,FDB52,FDB59,FDC04,FDC05,FDC22,FDC33,FDC35,FDC44,FDD09,FDD14,FDD20,FDD21,FDD34,FDE04,FDE17,FDE38,FDE39,FDE57,FDE58,FDF12,FDF14,FDF34,FDF47,FDF57,FDG28,FDG32,FDH19,FDH24,FDH41,FDH50,FDI26,FDI33,FDI41,FDJ26,FDJ28,FDJ33,FDJ40,FDJ44,FDJ46,FDJ60,FDK10,FDK22,FDK32,FDL03,FDL39,FDL44,FDL45,FDL51,FDM10,FDM15,FDM27,FDM36,FDM52,FDN04,FDN23,FDN39,FDN40,FDN44,FDN56,FDN57,FDO21,FDO24,FDO52,FDO58,FDP07,FDP45,FDQ12,FDQ21,FDQ25,FDQ28,FDQ40,FDQ44,FDQ45,FDQ55,FDR09,FDR11,FDR19,FDR21,FDR28,FDR47,FDR51,FDR52,FDS01,FDS10,FDS36,FDS39,FDS43,FDS55,FDT08,FDT11,FDT14,FDT28,FDU03,FDU19,FDU22,FDU59,FDV01,FDV02,FDV37,FDV44,FDV55,FDV58,FDW04,FDW15,FDW28,FDW31,FDW49,FDW51,FDX33,FDX34,FDX45,FDY04,FDY19,FDY31,FDY34,FDY44,FDY60,FDZ14,FDZ19,FDZ25,FDZ31,FDZ49,NCA17,NCB06,NCB31,NCC43,NCG06,NCG55,NCH06,NCI18,NCI30,NCI42,NCI55,NCJ05,NCK07,NCL17,NCL30,NCM19,NCN05,NCN18,NCN42,NCO29,NCO42,NCO53,NCP05,NCP14,NCP18,NCQ17,NCR05,NCR17,NCS53,NCU30,NCV06,NCV17,NCV18,NCW41,NCX41,NCX42,NCY06,NCY42,NCY54 808 868308200 2502.3460 \*  
## 57) Item\_Identifier=DRB24,DRC24,DRC27,DRD15,DRD49,DRD60,DRF37,DRG13,DRG36,DRH01,DRI01,DRI03,DRI13,DRJ11,DRJ23,DRJ51,DRK13,DRK47,DRL11,DRM11,DRM47,DRN47,DRP47,FDA09,FDA20,FDA21,FDA27,FDA32,FDA46,FDB03,FDB33,FDB46,FDB53,FDB56,FDB60,FDC03,FDC08,FDC23,FDC34,FDC39,FDD03,FDD11,FDD22,FDD23,FDD26,FDD40,FDD47,FDD50,FDD56,FDE20,FDE34,FDE45,FDE50,FDF11,FDF17,FDF22,FDF44,FDF50,FDF53,FDF56,FDG08,FDG09,FDG16,FDG21,FDG26,FDH60,FDI04,FDI07,FDI08,FDI10,FDI34,FDI36,FDI45,FDI46,FDJ08,FDJ12,FDJ21,FDJ38,FDJ41,FDJ58,FDK21,FDK26,FDK34,FDK46,FDK50,FDK56,FDL08,FDL13,FDL26,FDL34,FDM08,FDM25,FDN02,FDN09,FDN20,FDN22,FDN32,FDN45,FDN60,FDO12,FDO20,FDO34,FDO36,FDO46,FDO48,FDP08,FDP11,FDP23,FDP27,FDP28,FDP34,FDP58,FDQ01,FDQ07,FDQ10,FDQ11,FDR01,FDR31,FDR39,FDR55,FDS13,FDS16,FDS20,FDS31,FDS50,FDS58,FDT01,FDT07,FDT12,FDT13,FDT19,FDT27,FDT31,FDT32,FDT48,FDT52,FDT55,FDT59,FDU23,FDU31,FDU43,FDU44,FDU58,FDV03,FDV19,FDV22,FDV33,FDV35,FDV36,FDV39,FDV60,FDW02,FDW26,FDW43,FDW45,FDW52,FDW57,FDW60,FDX07,FDX09,FDX11,FDX19,FDX20,FDX25,FDX26,FDX51,FDX52,FDX55,FDY33,FDY37,FDY45,FDZ03,FDZ09,FDZ12,FDZ23,FDZ36,FDZ45,FDZ55,FDZ56,FDZ59,NCA29,NCA41,NCA42,NCB30,NCC06,NCD31,NCE43,NCG07,NCG54,NCI06,NCJ31,NCK18,NCK19,NCK30,NCL31,NCL53,NCL54,NCN06,NCO07,NCO18,NCP42,NCQ02,NCQ41,NCS06,NCT05,NCT17,NCU06,NCU29,NCW05,NCW17,NCW30,NCX06,NCX17,NCX18,NCY18,NCY30,NCZ06,NCZ53 961 1596797000 3314.3950 \*  
## 29) Outlet\_Identifier=OUT027 253 555325100 4563.5060   
## 58) Item\_Identifier=DRC49,DRG13,DRG36,DRG48,DRH01,DRI03,DRI23,DRJ23,DRJ37,DRK13,DRL11,DRM47,DRN47,DRZ24,FDA35,FDA52,FDA56,FDB38,FDB40,FDB52,FDB59,FDC04,FDC35,FDD11,FDD50,FDE38,FDE50,FDE52,FDE57,FDE58,FDF12,FDF57,FDG09,FDG21,FDI04,FDI07,FDI10,FDI33,FDI41,FDI46,FDJ21,FDJ33,FDJ40,FDJ44,FDJ46,FDJ58,FDK10,FDL08,FDL34,FDL39,FDL45,FDM10,FDM25,FDN04,FDN20,FDN23,FDN44,FDN45,FDN57,FDN60,FDO24,FDO36,FDO46,FDO52,FDO58,FDP11,FDP23,FDQ07,FDQ11,FDQ25,FDQ40,FDQ55,FDR21,FDR31,FDR51,FDS31,FDS55,FDT08,FDT11,FDT14,FDT19,FDT27,FDT48,FDT59,FDU23,FDU43,FDU44,FDU58,FDV02,FDV03,FDV36,FDV55,FDW02,FDW15,FDW26,FDW31,FDW45,FDW49,FDW52,FDW60,FDX07,FDX25,FDX26,FDX34,FDY04,FDY31,FDY37,FDY45,FDY60,FDZ14,FDZ23,FDZ55,FDZ56,FDZ59,NCA42,NCD31,NCE43,NCG07,NCH06,NCI42,NCJ05,NCJ31,NCK18,NCL31,NCL54,NCN18,NCN42,NCO29,NCO42,NCP18,NCQ17,NCQ41,NCR17,NCU29,NCW17,NCW41,NCY06,NCY18,NCZ06 139 97666270 3490.5260 \*  
## 59) Item\_Identifier=DRA59,DRC36,DRE48,DRE49,DRF23,DRG03,DRI01,DRJ47,DRM23,DRQ35,FDA20,FDA43,FDA45,FDA46,FDA47,FDB02,FDB44,FDB53,FDB56,FDC08,FDC33,FDC44,FDD09,FDD20,FDD26,FDD40,FDF34,FDF44,FDF50,FDF56,FDG32,FDH19,FDH41,FDH50,FDH60,FDI26,FDJ26,FDJ28,FDK22,FDK32,FDK34,FDL03,FDL26,FDL44,FDM15,FDM27,FDM36,FDN02,FDN09,FDN32,FDN39,FDN56,FDO34,FDP27,FDP45,FDQ10,FDQ12,FDQ28,FDQ45,FDR01,FDR09,FDR19,FDR47,FDR52,FDR55,FDS01,FDS10,FDS16,FDS39,FDS43,FDT07,FDT12,FDT32,FDT55,FDU19,FDU59,FDV01,FDV37,FDV60,FDW04,FDW28,FDW51,FDX09,FDX20,FDX33,FDX45,FDY33,FDY34,FDY44,FDZ19,FDZ25,FDZ31,FDZ49,NCB06,NCB30,NCB31,NCG06,NCG54,NCI18,NCI55,NCL30,NCL53,NCM19,NCO53,NCP05,NCR05,NCS06,NCS53,NCT17,NCV06,NCX06,NCX42,NCY54,NCZ53 114 102507000 5871.7890 \*  
## 15) Item\_Identifier=DRE01,DRE60,DRF36,DRF60,DRG25,DRG49,DRI51,DRI59,DRJ39,DRK23,DRK37,DRL01,DRM35,DRM37,FDA04,FDA15,FDA16,FDA22,FDA26,FDA34,FDA48,FDA55,FDB05,FDB11,FDB15,FDB17,FDB21,FDB23,FDB27,FDB37,FDB57,FDC02,FDC17,FDC46,FDC47,FDD17,FDD29,FDD33,FDD39,FDD44,FDE11,FDE16,FDE28,FDE36,FDF04,FDF05,FDF20,FDF21,FDF39,FDF40,FDF41,FDG14,FDG17,FDG45,FDG47,FDG60,FDH05,FDH08,FDH34,FDI09,FDI15,FDI19,FDI20,FDI22,FDI24,FDI35,FDI38,FDI50,FDI57,FDJ15,FDJ48,FDJ55,FDJ57,FDK03,FDK09,FDK25,FDK28,FDK33,FDK40,FDK51,FDK52,FDK57,FDL24,FDL57,FDL58,FDM20,FDM21,FDM33,FDM39,FDN03,FDN34,FDN38,FDN51,FDN58,FDO03,FDO09,FDO11,FDO25,FDO37,FDO39,FDP09,FDP15,FDP16,FDP21,FDP25,FDP33,FDP48,FDP52,FDQ19,FDQ24,FDQ33,FDQ37,FDQ39,FDQ52,FDR03,FDR16,FDR23,FDR25,FDR32,FDR34,FDR35,FDR37,FDR45,FDR56,FDR59,FDS02,FDS11,FDS26,FDS44,FDS56,FDT16,FDT21,FDT37,FDT57,FDU01,FDU02,FDU12,FDU14,FDU38,FDU51,FDU55,FDU56,FDU60,FDV25,FDV26,FDV45,FDV49,FDV57,FDV59,FDW10,FDW22,FDW34,FDW55,FDW56,FDX02,FDX12,FDX13,FDX22,FDX31,FDX35,FDX36,FDX39,FDX49,FDX56,FDX58,FDY02,FDY14,FDY16,FDY21,FDY25,FDY26,FDY28,FDY38,FDY39,FDY46,FDY51,FDY55,FDY56,FDY58,FDZ16,FDZ20,FDZ26,FDZ34,FDZ38,FDZ43,FDZ50,NCB07,NCB43,NCC19,NCC54,NCD18,NCE18,NCE42,NCE55,NCF18,NCH18,NCH42,NCJ54,NCK42,NCL06,NCL42,NCL55,NCM05,NCN55,NCP53,NCQ06,NCQ50,NCQ53,NCQ54,NCR38,NCR50,NCR53,NCS29,NCS54,NCT18,NCU41,NCU42,NCU54,NCV53,NCW18,NCW42,NCX30,NCZ18,NCZ42,NCZ54 1065 3734188000 4543.6210   
## 30) Outlet\_Establishment\_Year>=1986 899 2431458000 4197.6810   
## 60) Item\_Identifier=DRF36,DRI51,DRJ39,DRM35,FDA04,FDA16,FDA22,FDA34,FDA48,FDA55,FDB05,FDB17,FDB21,FDB23,FDB27,FDB57,FDC17,FDC46,FDD17,FDD33,FDD39,FDE11,FDE36,FDF04,FDF20,FDF21,FDF40,FDF41,FDG14,FDG60,FDH05,FDH08,FDH34,FDI09,FDI19,FDI22,FDI24,FDI35,FDI50,FDI57,FDJ15,FDJ48,FDJ55,FDJ57,FDK09,FDK25,FDK33,FDL24,FDL58,FDM21,FDM33,FDM39,FDN03,FDN34,FDO25,FDO37,FDO39,FDP09,FDP21,FDP25,FDP33,FDP48,FDP52,FDQ19,FDQ33,FDQ39,FDR03,FDR23,FDR32,FDR35,FDR37,FDR56,FDR59,FDS02,FDS11,FDS26,FDS56,FDT21,FDT57,FDU01,FDU02,FDU12,FDU14,FDU38,FDU51,FDU56,FDV26,FDV45,FDV49,FDV57,FDV59,FDW22,FDW34,FDX02,FDX13,FDX22,FDX31,FDX35,FDX36,FDX49,FDX58,FDY02,FDY16,FDY21,FDY25,FDY28,FDY38,FDY39,FDY46,FDY51,FDY58,FDZ26,FDZ38,FDZ43,NCB07,NCB43,NCC19,NCD18,NCE18,NCE42,NCE55,NCF18,NCH18,NCH42,NCK42,NCL06,NCL55,NCP53,NCQ06,NCQ54,NCR50,NCR53,NCS29,NCS54,NCT18,NCU41,NCU42,NCW18,NCW42,NCX30,NCZ54 573 1278524000 3791.9600 \*  
## 61) Item\_Identifier=DRE01,DRE60,DRF60,DRG25,DRG49,DRI59,DRK23,DRK37,DRL01,DRM37,FDA15,FDA26,FDB11,FDB15,FDB37,FDC02,FDC47,FDD29,FDD44,FDE16,FDE28,FDF05,FDF39,FDG17,FDG45,FDG47,FDI15,FDI20,FDI38,FDK03,FDK28,FDK40,FDK51,FDK52,FDL57,FDM20,FDN38,FDN51,FDN58,FDO03,FDO09,FDO11,FDP16,FDQ24,FDQ37,FDQ52,FDR16,FDR25,FDR34,FDR45,FDS44,FDT16,FDT37,FDU55,FDU60,FDV25,FDW10,FDW55,FDW56,FDX12,FDX39,FDX56,FDY14,FDY26,FDY55,FDY56,FDZ16,FDZ20,FDZ34,FDZ50,NCC54,NCJ54,NCL42,NCM05,NCN55,NCQ50,NCQ53,NCR38,NCU54,NCV53,NCZ18,NCZ42 326 892827100 4910.8040 \*  
## 31) Outlet\_Establishment\_Year< 1986 166 612484900 6417.1170   
## 62) Item\_Identifier=DRG49,DRI51,DRI59,DRJ39,DRK23,DRK37,DRM35,FDA04,FDA15,FDA22,FDA26,FDA55,FDB05,FDB17,FDB23,FDB27,FDB37,FDC02,FDD29,FDD39,FDE11,FDE36,FDF05,FDF20,FDF21,FDG14,FDH05,FDH08,FDH34,FDI19,FDI20,FDI57,FDJ15,FDJ48,FDK25,FDK28,FDK33,FDK51,FDK52,FDK57,FDM20,FDN34,FDO09,FDO11,FDO25,FDO39,FDP09,FDP21,FDP48,FDQ33,FDQ39,FDR23,FDR25,FDR32,FDR45,FDR59,FDS02,FDT16,FDT21,FDU01,FDU51,FDW22,FDW55,FDX31,FDX39,FDX49,FDY16,FDY21,FDY46,FDY51,FDY56,FDZ16,FDZ38,FDZ50,NCB07,NCC19,NCF18,NCJ54,NCP53,NCQ50,NCQ53,NCQ54,NCS29,NCS54,NCT18,NCU42,NCW18,NCW42,NCX30,NCZ54 90 98206930 5023.5500 \*  
## 63) Item\_Identifier=DRF36,DRL01,DRM37,FDA16,FDA34,FDB21,FDB57,FDC17,FDC46,FDD33,FDE16,FDF40,FDF41,FDG17,FDG60,FDI22,FDI24,FDI50,FDJ55,FDK03,FDK09,FDK40,FDL24,FDM21,FDM39,FDN03,FDN58,FDO03,FDO37,FDP15,FDP25,FDP33,FDP52,FDQ19,FDQ37,FDQ52,FDR35,FDR37,FDR56,FDS11,FDS26,FDS44,FDT57,FDU12,FDU14,FDU38,FDU55,FDU56,FDV26,FDV45,FDV49,FDV57,FDW34,FDW56,FDX13,FDX56,FDX58,FDY02,FDY25,FDY26,FDY39,FDY55,FDZ20,FDZ26,FDZ43,NCB43,NCD18,NCE42,NCE55,NCH18,NCH42,NCK42,NCM05,NCQ06,NCR50,NCR53 76 132515900 8067.3930 \*

dectreeprediction = predict(dectree1,testnew)

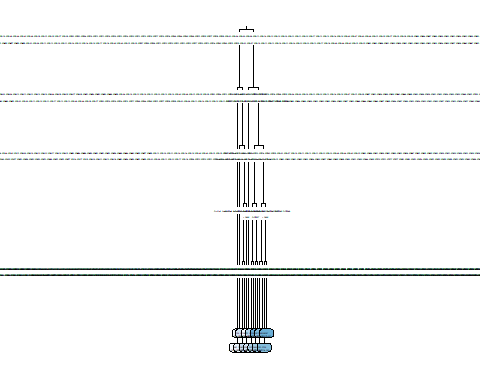
library(rpart.plot)  
rpart.plot(dectree1, digits = 3)

## Warning: labs do not fit even at cex 0.15, there may be some overplotting



rpart.plot(dectree1, digits = 4, fallen.leaves = TRUE, type = 3, extra = 101)

## Warning: labs do not fit even at cex 0.15, there may be some overplotting



p.rpart <- predict(dectree1, testnew)

summary(p.rpart)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 334.1 860.7 2287.2 2138.4 3314.4 8067.4

summary(testnew$Item\_Outlet\_Sales)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1 1 1 1 1 1

cor(p.rpart, testnew$Item\_Outlet\_Sales)

## Warning in cor(p.rpart, testnew$Item\_Outlet\_Sales): the standard deviation  
## is zero

## [1] NA

MAE(p.rpart, testnew$Item\_Outlet\_Sales)

## [1] 2137.403

library(RWeka)  
 m.m5p <- M5P(Item\_Outlet\_Sales ~ ., data = trainnew)

prediction= predict(m.m5p,testnew)  
summary(m.m5p)

##   
## === Summary ===  
##   
## Correlation coefficient 0.8446  
## Mean absolute error 649.2218  
## Root mean squared error 913.553   
## Relative absolute error 48.213 %  
## Root relative squared error 53.5369 %  
## Total Number of Instances 8523

summary(prediction)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -429.6 1012.4 1959.2 2144.8 3049.2 7941.3

cor(prediction, testnew$Item\_Outlet\_Sales)

## Warning in cor(prediction, testnew$Item\_Outlet\_Sales): the standard  
## deviation is zero

## [1] NA

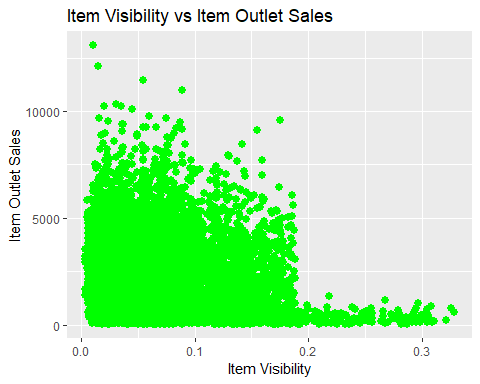
MAE(testnew$Item\_Outlet\_Sales, prediction)

## [1] 2147.464

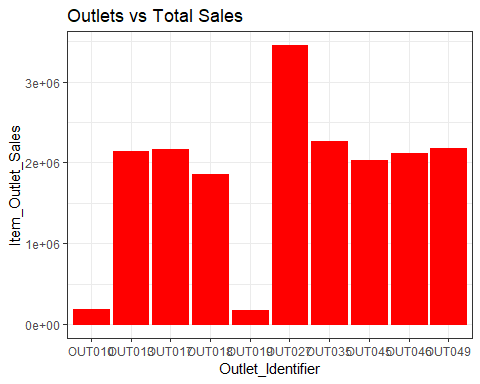
#using the built model for predictions  
predictedmodel <- predict(Wholetree, type ="vector")  
rmse(trainnew$Item\_Outlet\_Sales,predictedmodel)

## [1] 951.4899

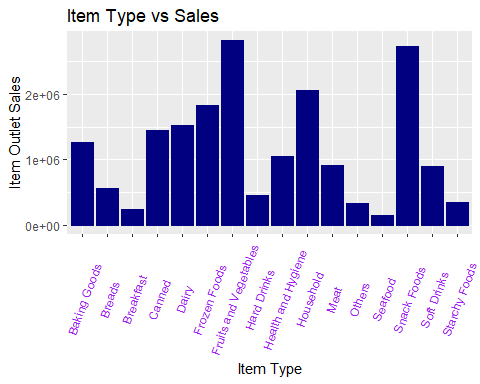
#plotting graph of visibility and sales  
ggplot(trainnew, aes(x= Item\_Visibility, y = Item\_Outlet\_Sales)) + geom\_point(size =  
2.5, color="green") + xlab("Item Visibility") + ylab("Item Outlet Sales") +  
ggtitle("Item Visibility vs Item Outlet Sales")



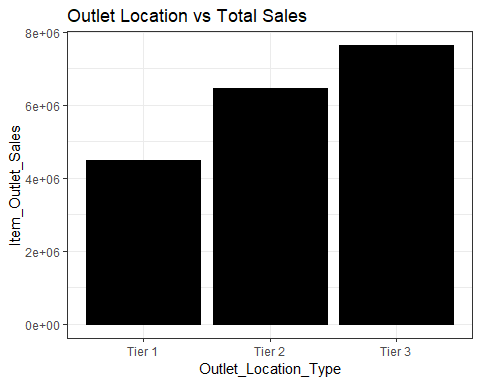
ggplot(trainnew, aes(Outlet\_Identifier, Item\_Outlet\_Sales)) + geom\_bar(stat =  
"identity", color = "red") +theme(axis.text.x = element\_text(angle = 70, vjust =  
0.5, color = "black")) + ggtitle("Outlets vs Total Sales") + theme\_bw()



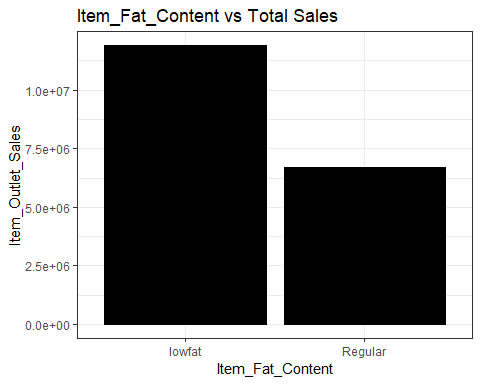
ggplot(trainnew, aes(Item\_Type, Item\_Outlet\_Sales)) + geom\_bar( stat = "identity",color="navy") + theme(axis.text.x =element\_text(angle = 70, vjust = 0.5, color = "purple")) +  
xlab("Item Type") + ylab("Item Outlet Sales")+ggtitle("Item Type vs Sales")



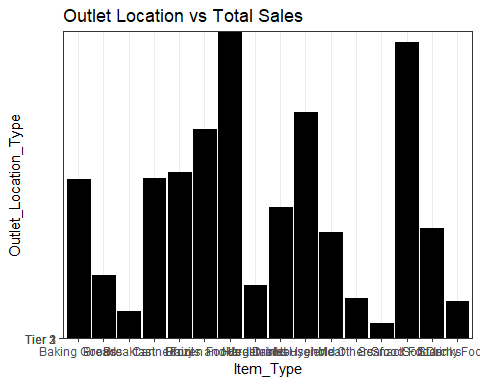
ggplot(trainnew, aes(Outlet\_Location\_Type, Item\_Outlet\_Sales)) + geom\_bar(stat =  
"identity", color = "black") +theme(axis.text.x = element\_text(angle = 30, vjust =  
0.5, color = "black")) + ggtitle("Outlet Location vs Total Sales") + theme\_bw()



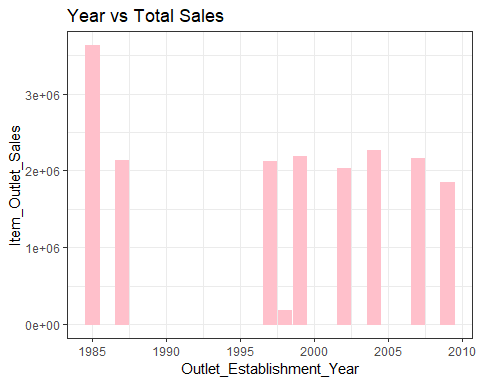
ggplot(trainnew, aes(Item\_Fat\_Content, Item\_Outlet\_Sales)) + geom\_bar(stat =  
"identity", color = "black") +theme(axis.text.x = element\_text(angle = 30, vjust =  
0.5, color = "black")) + ggtitle("Item\_Fat\_Content vs Total Sales") + theme\_bw()



ggplot(trainnew, aes(Item\_Type, Outlet\_Location\_Type)) + geom\_bar(stat =  
"identity", color = "black") +theme(axis.text.x = element\_text(angle = 100, vjust =  
2.5, color = "black")) + ggtitle("Outlet Location vs Total Sales") + theme\_bw()



ggplot(trainnew, aes(Outlet\_Establishment\_Year, Item\_Outlet\_Sales)) + geom\_bar(stat =  
"identity", color = "pink") + ggtitle("Year vs Total Sales") + theme\_bw()



#regression model  
RegModel <- lm(Item\_Outlet\_Sales ~ ., data =trainnew)  
  
summary(RegModel)

##   
## Call:  
## lm(formula = Item\_Outlet\_Sales ~ ., data = trainnew)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -3858.2 -603.2 -55.2 554.4 7077.6   
##   
## Coefficients: (24 not defined because of singularities)  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -2.415e+14 1.586e+14 -1.523 0.12785   
## Item\_IdentifierDRA24 3.661e+02 6.775e+02 0.540 0.58896   
## Item\_IdentifierDRA59 7.859e+02 7.846e+02 1.002 0.31651   
## Item\_IdentifierDRB01 -1.167e+03 9.640e+02 -1.211 0.22605   
## Item\_IdentifierDRB13 5.146e+02 8.738e+02 0.589 0.55589   
## Item\_IdentifierDRB24 7.779e+02 7.429e+02 1.047 0.29507   
## Item\_IdentifierDRB25 -4.066e+02 7.627e+02 -0.533 0.59392   
## Item\_IdentifierDRB48 -1.514e+03 1.320e+03 -1.147 0.25126   
## Item\_IdentifierDRC01 -1.529e+03 1.236e+03 -1.237 0.21619   
## Item\_IdentifierDRC12 -2.027e+01 9.115e+02 -0.022 0.98226   
## Item\_IdentifierDRC13 -5.331e+02 7.553e+02 -0.706 0.48032   
## Item\_IdentifierDRC24 1.069e+03 9.318e+02 1.147 0.25144   
## Item\_IdentifierDRC25 -6.587e+02 8.889e+02 -0.741 0.45870   
## Item\_IdentifierDRC27 8.867e+02 1.344e+03 0.660 0.50948   
## Item\_IdentifierDRC36 4.902e+02 7.767e+02 0.631 0.52799   
## Item\_IdentifierDRC49 1.315e+02 7.992e+02 0.165 0.86930   
## Item\_IdentifierDRD01 -1.298e+03 1.190e+03 -1.091 0.27546   
## Item\_IdentifierDRD12 -7.793e+02 8.493e+02 -0.918 0.35889   
## Item\_IdentifierDRD13 -1.128e+03 1.078e+03 -1.046 0.29547   
## Item\_IdentifierDRD15 8.552e+02 1.205e+03 0.710 0.47797   
## Item\_IdentifierDRD24 -1.332e+02 6.282e+02 -0.212 0.83212   
## Item\_IdentifierDRD25 -1.055e+02 6.922e+02 -0.152 0.87883   
## Item\_IdentifierDRD27 -5.475e+02 8.456e+02 -0.647 0.51738   
## Item\_IdentifierDRD37 -9.966e+02 1.252e+03 -0.796 0.42616   
## Item\_IdentifierDRD49 1.463e+03 1.310e+03 1.117 0.26406   
## Item\_IdentifierDRD60 7.460e+02 7.933e+02 0.940 0.34709   
## Item\_IdentifierDRE01 1.781e+03 1.462e+03 1.218 0.22327   
## Item\_IdentifierDRE03 -1.225e+03 1.248e+03 -0.982 0.32630   
## Item\_IdentifierDRE12 -8.982e+02 7.322e+02 -1.227 0.21997   
## Item\_IdentifierDRE13 -9.638e+02 9.269e+02 -1.040 0.29848   
## Item\_IdentifierDRE15 -9.039e+02 9.913e+02 -0.912 0.36189   
## Item\_IdentifierDRE25 -1.024e+03 8.842e+02 -1.158 0.24675   
## Item\_IdentifierDRE27 -8.233e+02 8.253e+02 -0.998 0.31851   
## Item\_IdentifierDRE37 1.295e+02 8.694e+02 0.149 0.88159   
## Item\_IdentifierDRE48 1.088e+03 8.837e+02 1.231 0.21819   
## Item\_IdentifierDRE49 5.688e+02 6.098e+02 0.933 0.35095   
## Item\_IdentifierDRE60 2.220e+03 1.155e+03 1.922 0.05471 .   
## Item\_IdentifierDRF01 -4.243e+02 6.212e+02 -0.683 0.49461   
## Item\_IdentifierDRF03 -1.517e+03 1.303e+03 -1.165 0.24412   
## Item\_IdentifierDRF13 5.250e+02 6.527e+02 0.804 0.42124   
## Item\_IdentifierDRF15 -6.733e+02 7.414e+02 -0.908 0.36378   
## Item\_IdentifierDRF23 5.497e+02 7.116e+02 0.773 0.43980   
## Item\_IdentifierDRF25 -1.345e+03 1.352e+03 -0.995 0.31985   
## Item\_IdentifierDRF27 3.453e+01 6.218e+02 0.056 0.95572   
## Item\_IdentifierDRF36 2.430e+03 8.553e+02 2.841 0.00451 \*\*  
## Item\_IdentifierDRF37 1.223e+03 1.510e+03 0.810 0.41805   
## Item\_IdentifierDRF48 -6.377e+02 1.328e+03 -0.480 0.63108   
## Item\_IdentifierDRF49 -4.809e+02 7.296e+02 -0.659 0.50988   
## Item\_IdentifierDRF51 -1.308e+03 1.432e+03 -0.914 0.36084   
## Item\_IdentifierDRF60 2.496e+03 1.315e+03 1.897 0.05782 .   
## Item\_IdentifierDRG01 -8.777e+02 1.005e+03 -0.873 0.38262   
## Item\_IdentifierDRG03 7.623e+02 6.978e+02 1.092 0.27472   
## Item\_IdentifierDRG11 -1.765e+02 7.791e+02 -0.227 0.82074   
## Item\_IdentifierDRG13 1.322e+03 7.309e+02 1.809 0.07045 .   
## Item\_IdentifierDRG15 -9.042e+02 1.124e+03 -0.805 0.42103   
## Item\_IdentifierDRG23 -5.898e+02 6.407e+02 -0.921 0.35732   
## Item\_IdentifierDRG25 2.273e+03 1.054e+03 2.157 0.03104 \*   
## Item\_IdentifierDRG27 -1.176e+03 1.332e+03 -0.882 0.37758   
## Item\_IdentifierDRG36 1.139e+03 7.625e+02 1.493 0.13537   
## Item\_IdentifierDRG37 -2.551e+02 6.467e+02 -0.394 0.69323   
## Item\_IdentifierDRG39 -1.103e+03 1.286e+03 -0.858 0.39106   
## Item\_IdentifierDRG48 6.691e+01 6.863e+02 0.097 0.92234   
## Item\_IdentifierDRG49 1.676e+03 1.344e+03 1.246 0.21263   
## Item\_IdentifierDRG51 1.989e+02 7.322e+02 0.272 0.78595   
## Item\_IdentifierDRH01 5.205e+02 7.709e+02 0.675 0.49964   
## Item\_IdentifierDRH03 -7.688e+02 8.598e+02 -0.894 0.37132   
## Item\_IdentifierDRH11 -1.585e+03 1.222e+03 -1.297 0.19477   
## Item\_IdentifierDRH13 -9.379e+02 7.908e+02 -1.186 0.23567   
## Item\_IdentifierDRH15 -7.737e+02 1.330e+03 -0.582 0.56075   
## Item\_IdentifierDRH23 -9.378e+02 1.200e+03 -0.782 0.43442   
## Item\_IdentifierDRH25 -1.370e+03 1.214e+03 -1.129 0.25895   
## Item\_IdentifierDRH36 -6.013e+02 1.008e+03 -0.597 0.55081   
## Item\_IdentifierDRH37 2.047e+02 7.002e+02 0.292 0.77002   
## Item\_IdentifierDRH39 -6.095e+02 9.877e+02 -0.617 0.53718   
## Item\_IdentifierDRH49 -1.067e+03 9.823e+02 -1.086 0.27748   
## Item\_IdentifierDRH51 -1.120e+03 9.066e+02 -1.236 0.21663   
## Item\_IdentifierDRH59 -9.028e+02 1.110e+03 -0.813 0.41601   
## Item\_IdentifierDRI01 1.013e+03 7.180e+02 1.411 0.15826   
## Item\_IdentifierDRI03 6.543e+02 7.273e+02 0.900 0.36835   
## Item\_IdentifierDRI11 -4.287e+02 6.973e+02 -0.615 0.53867   
## Item\_IdentifierDRI13 9.917e+02 1.123e+03 0.883 0.37708   
## Item\_IdentifierDRI23 3.207e+02 6.886e+02 0.466 0.64142   
## Item\_IdentifierDRI25 -1.239e+03 1.156e+03 -1.071 0.28407   
## Item\_IdentifierDRI37 -1.364e+03 1.150e+03 -1.186 0.23576   
## Item\_IdentifierDRI39 -7.348e+02 1.192e+03 -0.617 0.53754   
## Item\_IdentifierDRI47 4.202e+02 6.526e+02 0.644 0.51966   
## Item\_IdentifierDRI49 -6.018e+02 9.995e+02 -0.602 0.54714   
## Item\_IdentifierDRI51 1.279e+03 7.382e+02 1.733 0.08322 .   
## Item\_IdentifierDRI59 1.618e+03 1.309e+03 1.236 0.21640   
## Item\_IdentifierDRJ01 -7.111e+02 6.896e+02 -1.031 0.30252   
## Item\_IdentifierDRJ11 1.021e+03 8.266e+02 1.235 0.21669   
## Item\_IdentifierDRJ13 3.612e+02 6.833e+02 0.529 0.59705   
## Item\_IdentifierDRJ23 7.895e+02 8.639e+02 0.914 0.36079   
## Item\_IdentifierDRJ24 3.077e+02 7.868e+02 0.391 0.69572   
## Item\_IdentifierDRJ25 -1.025e+03 1.287e+03 -0.797 0.42569   
## Item\_IdentifierDRJ35 -1.502e+03 1.217e+03 -1.235 0.21704   
## Item\_IdentifierDRJ37 2.528e+02 8.050e+02 0.314 0.75346   
## Item\_IdentifierDRJ39 1.886e+03 1.090e+03 1.731 0.08353 .   
## Item\_IdentifierDRJ47 7.419e+02 8.143e+02 0.911 0.36230   
## Item\_IdentifierDRJ49 -2.259e+02 7.014e+02 -0.322 0.74739   
## Item\_IdentifierDRJ51 1.368e+03 1.214e+03 1.127 0.25983   
## Item\_IdentifierDRJ59 -1.625e+03 1.329e+03 -1.223 0.22139   
## Item\_IdentifierDRK01 -7.503e+02 8.723e+02 -0.860 0.38971   
## Item\_IdentifierDRK11 -2.596e+02 6.582e+02 -0.394 0.69325   
## Item\_IdentifierDRK12 -1.614e+03 1.380e+03 -1.170 0.24222   
## Item\_IdentifierDRK13 1.333e+03 9.176e+02 1.453 0.14620   
## Item\_IdentifierDRK23 3.004e+03 1.432e+03 2.098 0.03598 \*   
## Item\_IdentifierDRK35 -1.278e+03 1.324e+03 -0.965 0.33458   
## Item\_IdentifierDRK37 1.862e+03 8.711e+02 2.138 0.03255 \*   
## Item\_IdentifierDRK39 -8.545e+02 9.548e+02 -0.895 0.37083   
## Item\_IdentifierDRK47 1.101e+03 1.207e+03 0.912 0.36180   
## Item\_IdentifierDRK49 -1.555e+03 1.305e+03 -1.192 0.23320   
## Item\_IdentifierDRK59 1.835e+02 1.235e+03 0.149 0.88195   
## Item\_IdentifierDRL01 2.409e+03 1.210e+03 1.991 0.04652 \*   
## Item\_IdentifierDRL11 6.805e+02 7.084e+02 0.961 0.33680   
## Item\_IdentifierDRL23 -5.052e+02 8.332e+02 -0.606 0.54427   
## Item\_IdentifierDRL35 -1.364e+03 1.282e+03 -1.064 0.28746   
## Item\_IdentifierDRL37 -1.580e+03 1.281e+03 -1.233 0.21769   
## Item\_IdentifierDRL47 -1.119e+03 7.072e+02 -1.583 0.11355   
## Item\_IdentifierDRL49 -9.619e+02 6.518e+02 -1.476 0.14008   
## Item\_IdentifierDRL59 -6.031e+02 1.350e+03 -0.447 0.65506   
## Item\_IdentifierDRL60 -2.286e+01 6.389e+02 -0.036 0.97146   
## Item\_IdentifierDRM11 1.621e+03 1.563e+03 1.037 0.29975   
## Item\_IdentifierDRM23 7.517e+02 7.195e+02 1.045 0.29618   
## Item\_IdentifierDRM35 1.524e+03 8.349e+02 1.826 0.06796 .   
## Item\_IdentifierDRM37 2.114e+03 8.877e+02 2.382 0.01727 \*   
## Item\_IdentifierDRM47 8.882e+02 8.616e+02 1.031 0.30263   
## Item\_IdentifierDRM48 -1.595e+03 1.390e+03 -1.147 0.25122   
## Item\_IdentifierDRM49 -1.380e+03 1.299e+03 -1.063 0.28792   
## Item\_IdentifierDRM59 1.951e+02 6.447e+02 0.303 0.76223   
## Item\_IdentifierDRN11 1.400e+02 7.362e+02 0.190 0.84922   
## Item\_IdentifierDRN35 -1.151e+03 1.360e+03 -0.847 0.39712   
## Item\_IdentifierDRN36 -7.415e+02 8.622e+02 -0.860 0.38983   
## Item\_IdentifierDRN37 -3.702e+01 7.117e+02 -0.052 0.95852   
## Item\_IdentifierDRN47 7.721e+02 7.312e+02 1.056 0.29102   
## Item\_IdentifierDRN59 -1.728e+03 1.306e+03 -1.323 0.18602   
## Item\_IdentifierDRO35 4.030e+02 7.866e+02 0.512 0.60838   
## Item\_IdentifierDRO47 -3.500e+02 7.308e+02 -0.479 0.63203   
## Item\_IdentifierDRO59 -6.738e+02 1.039e+03 -0.648 0.51685   
## Item\_IdentifierDRP35 1.136e+02 6.330e+02 0.180 0.85754   
## Item\_IdentifierDRP47 1.605e+03 1.446e+03 1.110 0.26712   
## Item\_IdentifierDRQ35 2.122e+02 6.602e+02 0.321 0.74795   
## Item\_IdentifierDRY23 -1.595e+03 1.299e+03 -1.228 0.21963   
## Item\_IdentifierDRZ11 -6.009e+02 6.883e+02 -0.873 0.38274   
## Item\_IdentifierDRZ24 1.351e+02 7.259e+02 0.186 0.85235   
## Item\_IdentifierFDA01 -1.292e+03 1.127e+03 -1.146 0.25187   
## Item\_IdentifierFDA02 -3.894e+02 6.288e+02 -0.619 0.53582   
## Item\_IdentifierFDA03 1.408e+02 6.542e+02 0.215 0.82966   
## Item\_IdentifierFDA04 2.101e+03 1.458e+03 1.442 0.14944   
## Item\_IdentifierFDA07 -1.826e+02 6.636e+02 -0.275 0.78317   
## Item\_IdentifierFDA08 -1.039e+00 6.982e+02 -0.001 0.99881   
## Item\_IdentifierFDA09 9.061e+02 8.085e+02 1.121 0.26245   
## Item\_IdentifierFDA10 -5.013e+02 6.944e+02 -0.722 0.47036   
## Item\_IdentifierFDA11 -7.506e+02 8.713e+02 -0.862 0.38899   
## Item\_IdentifierFDA13 -1.584e+03 1.322e+03 -1.198 0.23086   
## Item\_IdentifierFDA14 -2.310e+02 8.009e+02 -0.288 0.77303   
## Item\_IdentifierFDA15 3.267e+03 1.370e+03 2.386 0.01708 \*   
## Item\_IdentifierFDA16 1.838e+03 1.157e+03 1.589 0.11208   
## Item\_IdentifierFDA19 -2.209e+01 7.004e+02 -0.032 0.97484   
## Item\_IdentifierFDA20 1.075e+03 8.230e+02 1.307 0.19133   
## Item\_IdentifierFDA21 1.656e+03 8.148e+02 2.033 0.04213 \*   
## Item\_IdentifierFDA22 1.202e+03 8.482e+02 1.417 0.15660   
## Item\_IdentifierFDA23 -5.496e+02 7.965e+02 -0.690 0.49020   
## Item\_IdentifierFDA25 -6.372e+02 8.125e+02 -0.784 0.43295   
## Item\_IdentifierFDA26 1.264e+03 1.107e+03 1.142 0.25341   
## Item\_IdentifierFDA27 9.218e+02 1.463e+03 0.630 0.52869   
## Item\_IdentifierFDA28 -5.879e+01 6.760e+02 -0.087 0.93070   
## Item\_IdentifierFDA31 2.041e+02 8.094e+02 0.252 0.80091   
## Item\_IdentifierFDA32 8.427e+02 1.046e+03 0.806 0.42053   
## Item\_IdentifierFDA33 2.883e+02 6.872e+02 0.420 0.67484   
## Item\_IdentifierFDA34 1.542e+03 7.710e+02 2.000 0.04552 \*   
## Item\_IdentifierFDA35 3.433e+02 7.613e+02 0.451 0.65205   
## Item\_IdentifierFDA36 -1.075e+02 8.787e+02 -0.122 0.90263   
## Item\_IdentifierFDA37 2.747e+01 8.245e+02 0.033 0.97343   
## Item\_IdentifierFDA38 2.189e+02 1.329e+03 0.165 0.86920   
## Item\_IdentifierFDA39 -1.473e+03 1.308e+03 -1.126 0.26008   
## Item\_IdentifierFDA40 -1.316e+03 9.187e+02 -1.433 0.15193   
## Item\_IdentifierFDA43 3.762e+02 9.112e+02 0.413 0.67967   
## Item\_IdentifierFDA44 -1.135e+03 1.144e+03 -0.992 0.32102   
## Item\_IdentifierFDA45 4.408e+02 7.985e+02 0.552 0.58093   
## Item\_IdentifierFDA46 1.395e+03 8.856e+02 1.576 0.11516   
## Item\_IdentifierFDA47 5.342e+02 6.967e+02 0.767 0.44322   
## Item\_IdentifierFDA48 2.211e+03 1.291e+03 1.713 0.08672 .   
## Item\_IdentifierFDA49 -7.296e+02 8.957e+02 -0.815 0.41536   
## Item\_IdentifierFDA50 -6.561e+02 7.988e+02 -0.821 0.41151   
## Item\_IdentifierFDA51 -4.644e+02 8.707e+02 -0.533 0.59379   
## Item\_IdentifierFDA52 4.446e+02 7.961e+02 0.558 0.57659   
## Item\_IdentifierFDA55 1.473e+03 1.182e+03 1.246 0.21298   
## Item\_IdentifierFDA56 2.581e+02 7.200e+02 0.358 0.72000   
## Item\_IdentifierFDA57 -1.602e+03 1.395e+03 -1.149 0.25080   
## Item\_IdentifierFDA58 -2.216e+01 1.326e+03 -0.017 0.98667   
## Item\_IdentifierFDB02 1.186e+03 7.843e+02 1.512 0.13069   
## Item\_IdentifierFDB03 1.550e+03 1.312e+03 1.181 0.23748   
## Item\_IdentifierFDB04 -6.145e+02 8.721e+02 -0.705 0.48107   
## Item\_IdentifierFDB05 1.015e+03 1.391e+03 0.730 0.46572   
## Item\_IdentifierFDB08 -1.733e+02 6.851e+02 -0.253 0.80037   
## Item\_IdentifierFDB09 -7.190e+02 7.104e+02 -1.012 0.31154   
## Item\_IdentifierFDB10 4.495e+01 1.396e+03 0.032 0.97431   
## Item\_IdentifierFDB11 2.224e+03 1.165e+03 1.909 0.05636 .   
## Item\_IdentifierFDB12 -3.830e+02 8.105e+02 -0.472 0.63659   
## Item\_IdentifierFDB14 -2.429e+02 8.392e+02 -0.289 0.77223   
## Item\_IdentifierFDB15 2.006e+03 1.516e+03 1.323 0.18573   
## Item\_IdentifierFDB16 -1.064e+03 9.175e+02 -1.160 0.24609   
## Item\_IdentifierFDB17 1.286e+03 7.510e+02 1.712 0.08686 .   
## Item\_IdentifierFDB20 -1.066e+03 9.933e+02 -1.073 0.28340   
## Item\_IdentifierFDB21 1.881e+03 1.324e+03 1.421 0.15534   
## Item\_IdentifierFDB22 1.400e+02 6.996e+02 0.200 0.84137   
## Item\_IdentifierFDB23 1.448e+03 1.150e+03 1.259 0.20793   
## Item\_IdentifierFDB26 -1.605e+03 1.215e+03 -1.321 0.18643   
## Item\_IdentifierFDB27 1.185e+03 9.015e+02 1.314 0.18882   
## Item\_IdentifierFDB28 2.774e+02 9.649e+02 0.288 0.77374   
## Item\_IdentifierFDB29 -5.920e+02 7.239e+02 -0.818 0.41355   
## Item\_IdentifierFDB32 -1.367e+02 8.475e+02 -0.161 0.87183   
## Item\_IdentifierFDB33 1.047e+03 7.123e+02 1.469 0.14176   
## Item\_IdentifierFDB34 -5.774e+02 8.887e+02 -0.650 0.51591   
## Item\_IdentifierFDB35 -4.377e+02 8.585e+02 -0.510 0.61019   
## Item\_IdentifierFDB36 -2.266e+02 6.397e+02 -0.354 0.72323   
## Item\_IdentifierFDB37 2.616e+03 1.313e+03 1.992 0.04636 \*   
## Item\_IdentifierFDB38 3.708e+02 7.125e+02 0.520 0.60277   
## Item\_IdentifierFDB39 -1.173e+03 1.178e+03 -0.996 0.31928   
## Item\_IdentifierFDB40 4.171e+02 6.547e+02 0.637 0.52411   
## Item\_IdentifierFDB41 -8.319e+02 1.254e+03 -0.664 0.50700   
## Item\_IdentifierFDB44 1.033e+03 1.036e+03 0.998 0.31853   
## Item\_IdentifierFDB45 -5.716e+02 7.782e+02 -0.735 0.46264   
## Item\_IdentifierFDB46 1.465e+03 1.078e+03 1.360 0.17402   
## Item\_IdentifierFDB47 6.349e+01 1.201e+03 0.053 0.95784   
## Item\_IdentifierFDB49 -1.408e+02 8.170e+02 -0.172 0.86314   
## Item\_IdentifierFDB50 -5.977e+02 1.003e+03 -0.596 0.55117   
## Item\_IdentifierFDB51 -1.323e+03 1.110e+03 -1.192 0.23343   
## Item\_IdentifierFDB52 5.344e+02 1.469e+03 0.364 0.71614   
## Item\_IdentifierFDB53 1.060e+03 6.917e+02 1.532 0.12558   
## Item\_IdentifierFDB56 1.469e+03 8.126e+02 1.808 0.07068 .   
## Item\_IdentifierFDB57 1.561e+03 1.134e+03 1.376 0.16883   
## Item\_IdentifierFDB58 3.889e+02 6.287e+02 0.619 0.53616   
## Item\_IdentifierFDB59 7.770e+01 9.365e+02 0.083 0.93388   
## Item\_IdentifierFDB60 8.265e+02 8.868e+02 0.932 0.35139   
## Item\_IdentifierFDC02 2.499e+03 1.478e+03 1.692 0.09078 .   
## Item\_IdentifierFDC03 9.471e+02 9.438e+02 1.004 0.31564   
## Item\_IdentifierFDC04 4.708e+02 1.322e+03 0.356 0.72180   
## Item\_IdentifierFDC05 6.936e+02 9.611e+02 0.722 0.47053   
## Item\_IdentifierFDC08 8.560e+02 1.162e+03 0.737 0.46139   
## Item\_IdentifierFDC09 -8.543e+02 8.174e+02 -1.045 0.29601   
## Item\_IdentifierFDC10 -1.025e+03 7.273e+02 -1.409 0.15884   
## Item\_IdentifierFDC11 -3.739e+02 9.434e+02 -0.396 0.69185   
## Item\_IdentifierFDC14 -1.284e+03 1.288e+03 -0.997 0.31888   
## Item\_IdentifierFDC15 1.307e+02 7.607e+02 0.172 0.86359   
## Item\_IdentifierFDC16 -9.973e+02 8.888e+02 -1.122 0.26187   
## Item\_IdentifierFDC17 2.147e+03 1.004e+03 2.139 0.03248 \*   
## Item\_IdentifierFDC20 -1.340e+03 1.168e+03 -1.148 0.25121   
## Item\_IdentifierFDC21 -4.795e+02 7.783e+02 -0.616 0.53787   
## Item\_IdentifierFDC22 7.150e+02 9.050e+02 0.790 0.42954   
## Item\_IdentifierFDC23 1.306e+03 1.288e+03 1.014 0.31052   
## Item\_IdentifierFDC26 -5.411e+02 7.713e+02 -0.702 0.48300   
## Item\_IdentifierFDC28 -7.023e+02 7.784e+02 -0.902 0.36696   
## Item\_IdentifierFDC29 -4.613e+02 7.022e+02 -0.657 0.51129   
## Item\_IdentifierFDC32 -8.099e+02 8.859e+02 -0.914 0.36065   
## Item\_IdentifierFDC33 1.193e+03 9.000e+02 1.325 0.18510   
## Item\_IdentifierFDC34 1.157e+03 6.810e+02 1.699 0.08930 .   
## Item\_IdentifierFDC35 4.099e+02 9.861e+02 0.416 0.67765   
## Item\_IdentifierFDC37 2.788e+02 8.894e+02 0.314 0.75391   
## Item\_IdentifierFDC38 -1.133e+02 7.393e+02 -0.153 0.87818   
## Item\_IdentifierFDC39 1.385e+03 1.039e+03 1.333 0.18265   
## Item\_IdentifierFDC40 -8.491e+02 9.957e+02 -0.853 0.39380   
## Item\_IdentifierFDC41 -5.236e+02 9.700e+02 -0.540 0.58934   
## Item\_IdentifierFDC44 6.802e+01 7.289e+02 0.093 0.92566   
## Item\_IdentifierFDC45 -3.316e+02 7.357e+02 -0.451 0.65216   
## Item\_IdentifierFDC46 1.692e+03 7.896e+02 2.142 0.03219 \*   
## Item\_IdentifierFDC47 2.421e+03 1.177e+03 2.057 0.03973 \*   
## Item\_IdentifierFDC48 -3.799e+02 9.860e+02 -0.385 0.70000   
## Item\_IdentifierFDC50 -3.046e+02 8.284e+02 -0.368 0.71311   
## Item\_IdentifierFDC51 -1.159e+02 7.172e+02 -0.162 0.87164   
## Item\_IdentifierFDC52 -2.088e+02 7.361e+02 -0.284 0.77670   
## Item\_IdentifierFDC53 -8.487e+02 8.160e+02 -1.040 0.29833   
## Item\_IdentifierFDC56 1.076e+02 8.391e+02 0.128 0.89792   
## Item\_IdentifierFDC57 2.210e+02 9.369e+02 0.236 0.81349   
## Item\_IdentifierFDC58 -1.852e+03 1.299e+03 -1.426 0.15392   
## Item\_IdentifierFDC59 -1.067e+03 1.078e+03 -0.990 0.32211   
## Item\_IdentifierFDC60 -3.945e+01 9.526e+02 -0.041 0.96697   
## Item\_IdentifierFDD02 1.923e+02 7.361e+02 0.261 0.79388   
## Item\_IdentifierFDD03 8.167e+02 1.236e+03 0.661 0.50874   
## Item\_IdentifierFDD04 -9.647e+01 6.537e+02 -0.148 0.88268   
## Item\_IdentifierFDD05 9.791e+01 6.548e+02 0.150 0.88114   
## Item\_IdentifierFDD08 -1.798e+03 1.347e+03 -1.334 0.18211   
## Item\_IdentifierFDD09 8.974e+02 7.862e+02 1.142 0.25368   
## Item\_IdentifierFDD10 -2.951e+02 7.496e+02 -0.394 0.69380   
## Item\_IdentifierFDD11 6.095e+02 1.419e+03 0.429 0.66761   
## Item\_IdentifierFDD14 6.806e+02 8.156e+02 0.834 0.40409   
## Item\_IdentifierFDD16 -4.309e+02 1.054e+03 -0.409 0.68280   
## Item\_IdentifierFDD17 1.485e+03 1.257e+03 1.181 0.23752   
## Item\_IdentifierFDD20 4.666e+02 8.217e+02 0.568 0.57018   
## Item\_IdentifierFDD21 4.222e+02 7.228e+02 0.584 0.55918   
## Item\_IdentifierFDD22 1.316e+03 9.772e+02 1.346 0.17825   
## Item\_IdentifierFDD23 1.134e+03 9.457e+02 1.199 0.23059   
## Item\_IdentifierFDD26 8.073e+02 8.139e+02 0.992 0.32128   
## Item\_IdentifierFDD28 -1.538e+03 1.186e+03 -1.297 0.19460   
## Item\_IdentifierFDD29 1.899e+03 1.400e+03 1.356 0.17515   
## Item\_IdentifierFDD32 -1.072e+03 1.052e+03 -1.019 0.30811   
## Item\_IdentifierFDD33 1.861e+03 1.263e+03 1.474 0.14056   
## Item\_IdentifierFDD34 1.763e+02 7.227e+02 0.244 0.80729   
## Item\_IdentifierFDD35 -1.869e+02 7.273e+02 -0.257 0.79716   
## Item\_IdentifierFDD36 -4.978e+02 7.718e+02 -0.645 0.51895   
## Item\_IdentifierFDD38 -4.323e+02 7.477e+02 -0.578 0.56316   
## Item\_IdentifierFDD39 1.643e+03 1.056e+03 1.556 0.11982   
## Item\_IdentifierFDD40 9.755e+02 8.721e+02 1.119 0.26338   
## Item\_IdentifierFDD41 -6.949e+02 7.714e+02 -0.901 0.36776   
## Item\_IdentifierFDD44 3.251e+03 1.462e+03 2.223 0.02623 \*   
## Item\_IdentifierFDD45 -6.012e+02 9.040e+02 -0.665 0.50607   
## Item\_IdentifierFDD46 -3.331e+01 6.738e+02 -0.049 0.96058   
## Item\_IdentifierFDD47 1.373e+03 7.403e+02 1.855 0.06360 .   
## Item\_IdentifierFDD48 -4.714e+00 9.685e+02 -0.005 0.99612   
## Item\_IdentifierFDD50 7.951e+02 7.036e+02 1.130 0.25850   
## Item\_IdentifierFDD51 -1.620e+03 1.279e+03 -1.266 0.20539   
## Item\_IdentifierFDD52 -5.474e+02 7.553e+02 -0.725 0.46869   
## Item\_IdentifierFDD53 -1.267e+03 1.312e+03 -0.965 0.33454   
## Item\_IdentifierFDD56 9.199e+02 7.617e+02 1.208 0.22722   
## Item\_IdentifierFDD57 -7.068e+02 8.215e+02 -0.860 0.38961   
## Item\_IdentifierFDD58 -5.250e+02 8.063e+02 -0.651 0.51500   
## Item\_IdentifierFDD59 -9.671e+02 1.012e+03 -0.956 0.33909   
## Item\_IdentifierFDE02 -2.885e+02 8.770e+02 -0.329 0.74218   
## Item\_IdentifierFDE04 6.148e+02 7.847e+02 0.784 0.43335   
## Item\_IdentifierFDE05 2.549e+02 6.534e+02 0.390 0.69647   
## Item\_IdentifierFDE08 6.136e+02 6.875e+02 0.893 0.37215   
## Item\_IdentifierFDE09 -7.423e+02 7.697e+02 -0.964 0.33488   
## Item\_IdentifierFDE10 -3.217e+02 6.635e+02 -0.485 0.62774   
## Item\_IdentifierFDE11 1.585e+03 7.802e+02 2.032 0.04222 \*   
## Item\_IdentifierFDE14 -2.768e+02 8.361e+02 -0.331 0.74062   
## Item\_IdentifierFDE16 2.147e+03 9.802e+02 2.190 0.02854 \*   
## Item\_IdentifierFDE17 5.427e+02 6.400e+02 0.848 0.39645   
## Item\_IdentifierFDE20 1.116e+03 7.499e+02 1.488 0.13688   
## Item\_IdentifierFDE21 -3.834e+02 8.501e+02 -0.451 0.65198   
## Item\_IdentifierFDE22 3.351e+02 7.117e+02 0.471 0.63776   
## Item\_IdentifierFDE23 -1.233e+03 1.276e+03 -0.966 0.33396   
## Item\_IdentifierFDE24 -3.750e+02 6.534e+02 -0.574 0.56601   
## Item\_IdentifierFDE26 1.913e+02 6.853e+02 0.279 0.78019   
## Item\_IdentifierFDE28 1.468e+03 1.209e+03 1.214 0.22466   
## Item\_IdentifierFDE29 -1.256e+03 1.126e+03 -1.116 0.26454   
## Item\_IdentifierFDE32 -1.816e+03 1.340e+03 -1.356 0.17530   
## Item\_IdentifierFDE33 -5.920e+02 9.510e+02 -0.623 0.53362   
## Item\_IdentifierFDE34 1.136e+03 7.993e+02 1.421 0.15547   
## Item\_IdentifierFDE35 -1.318e+03 1.157e+03 -1.140 0.25449   
## Item\_IdentifierFDE36 1.579e+03 6.966e+02 2.266 0.02346 \*   
## Item\_IdentifierFDE38 7.459e+02 9.563e+02 0.780 0.43543   
## Item\_IdentifierFDE39 5.075e+02 9.565e+02 0.531 0.59570   
## Item\_IdentifierFDE40 -9.675e+02 1.131e+03 -0.856 0.39218   
## Item\_IdentifierFDE41 -7.964e+02 9.179e+02 -0.868 0.38560   
## Item\_IdentifierFDE44 -1.335e+03 1.249e+03 -1.069 0.28524   
## Item\_IdentifierFDE45 1.334e+03 8.008e+02 1.665 0.09588 .   
## Item\_IdentifierFDE46 -7.206e+02 6.631e+02 -1.087 0.27716   
## Item\_IdentifierFDE47 -3.035e+02 7.538e+02 -0.403 0.68723   
## Item\_IdentifierFDE50 8.718e+02 9.547e+02 0.913 0.36120   
## Item\_IdentifierFDE51 -1.314e+03 1.274e+03 -1.032 0.30234   
## Item\_IdentifierFDE52 -1.559e+02 1.358e+03 -0.115 0.90863   
## Item\_IdentifierFDE53 -8.985e+02 7.912e+02 -1.136 0.25614   
## Item\_IdentifierFDE56 -7.378e+02 1.162e+03 -0.635 0.52547   
## Item\_IdentifierFDE57 4.850e+02 7.287e+02 0.666 0.50570   
## Item\_IdentifierFDE58 -1.670e+02 7.741e+02 -0.216 0.82923   
## Item\_IdentifierFDE59 -1.362e+03 1.369e+03 -0.995 0.31990   
## Item\_IdentifierFDF02 -4.379e+02 9.209e+02 -0.476 0.63441   
## Item\_IdentifierFDF04 1.811e+03 1.449e+03 1.250 0.21141   
## Item\_IdentifierFDF05 2.193e+03 1.498e+03 1.464 0.14328   
## Item\_IdentifierFDF08 -5.496e+02 8.840e+02 -0.622 0.53415   
## Item\_IdentifierFDF09 -1.992e+03 1.344e+03 -1.482 0.13840   
## Item\_IdentifierFDF10 -3.108e+01 7.355e+02 -0.042 0.96630   
## Item\_IdentifierFDF11 1.007e+03 1.301e+03 0.774 0.43903   
## Item\_IdentifierFDF12 7.402e+01 6.568e+02 0.113 0.91027   
## Item\_IdentifierFDF14 1.400e+02 7.391e+02 0.189 0.84973   
## Item\_IdentifierFDF16 4.507e+01 6.147e+02 0.073 0.94156   
## Item\_IdentifierFDF17 9.587e+02 1.013e+03 0.946 0.34397   
## Item\_IdentifierFDF20 1.170e+03 9.032e+02 1.295 0.19525   
## Item\_IdentifierFDF21 1.589e+03 8.291e+02 1.916 0.05539 .   
## Item\_IdentifierFDF22 1.278e+03 1.011e+03 1.264 0.20615   
## Item\_IdentifierFDF24 -5.126e+02 9.337e+02 -0.549 0.58305   
## Item\_IdentifierFDF26 3.772e+01 6.670e+02 0.057 0.95490   
## Item\_IdentifierFDF28 -3.587e+02 8.237e+02 -0.436 0.66321   
## Item\_IdentifierFDF29 -3.088e+02 6.977e+02 -0.443 0.65811   
## Item\_IdentifierFDF32 1.116e+02 9.306e+02 0.120 0.90452   
## Item\_IdentifierFDF33 -2.165e+02 7.844e+02 -0.276 0.78251   
## Item\_IdentifierFDF34 6.751e+02 9.143e+02 0.738 0.46027   
## Item\_IdentifierFDF35 -5.915e+02 7.965e+02 -0.743 0.45773   
## Item\_IdentifierFDF38 -1.794e+03 1.474e+03 -1.217 0.22361   
## Item\_IdentifierFDF39 3.335e+03 1.545e+03 2.159 0.03089 \*   
## Item\_IdentifierFDF40 1.771e+03 1.412e+03 1.254 0.20990   
## Item\_IdentifierFDF41 1.630e+03 1.350e+03 1.207 0.22747   
## Item\_IdentifierFDF44 9.537e+02 6.953e+02 1.372 0.17019   
## Item\_IdentifierFDF45 -8.837e+02 1.167e+03 -0.757 0.44880   
## Item\_IdentifierFDF46 -2.732e+02 7.498e+02 -0.364 0.71557   
## Item\_IdentifierFDF47 3.368e+02 1.182e+03 0.285 0.77572   
## Item\_IdentifierFDF50 8.847e+02 1.018e+03 0.869 0.38480   
## Item\_IdentifierFDF52 2.987e+02 7.554e+02 0.395 0.69253   
## Item\_IdentifierFDF53 1.364e+03 8.493e+02 1.606 0.10827   
## Item\_IdentifierFDF56 1.111e+03 7.463e+02 1.488 0.13677   
## Item\_IdentifierFDF57 2.450e+02 7.037e+02 0.348 0.72776   
## Item\_IdentifierFDF58 -1.038e+03 1.189e+03 -0.873 0.38281   
## Item\_IdentifierFDF59 -8.128e+02 7.495e+02 -1.084 0.27822   
## Item\_IdentifierFDG02 -1.439e+02 8.761e+02 -0.164 0.86952   
## Item\_IdentifierFDG04 5.578e+02 8.888e+02 0.628 0.53032   
## Item\_IdentifierFDG05 -2.138e+02 7.469e+02 -0.286 0.77467   
## Item\_IdentifierFDG08 8.106e+02 7.186e+02 1.128 0.25935   
## Item\_IdentifierFDG09 1.064e+03 7.869e+02 1.353 0.17622   
## Item\_IdentifierFDG10 -1.306e+03 1.159e+03 -1.126 0.26009   
## Item\_IdentifierFDG12 -7.727e+00 6.921e+02 -0.011 0.99109   
## Item\_IdentifierFDG14 1.628e+03 8.053e+02 2.022 0.04324 \*   
## Item\_IdentifierFDG16 1.159e+03 1.057e+03 1.097 0.27270   
## Item\_IdentifierFDG17 2.770e+03 1.374e+03 2.016 0.04381 \*   
## Item\_IdentifierFDG20 -3.687e+02 7.967e+02 -0.463 0.64357   
## Item\_IdentifierFDG21 9.859e+02 6.631e+02 1.487 0.13709   
## Item\_IdentifierFDG22 -1.938e+03 1.392e+03 -1.393 0.16379   
## Item\_IdentifierFDG24 -8.871e+02 8.974e+02 -0.988 0.32297   
## Item\_IdentifierFDG26 1.449e+03 1.451e+03 0.999 0.31802   
## Item\_IdentifierFDG28 3.217e+02 1.495e+03 0.215 0.82963   
## Item\_IdentifierFDG29 -1.914e+03 1.307e+03 -1.464 0.14316   
## Item\_IdentifierFDG31 -9.935e+02 1.092e+03 -0.909 0.36315   
## Item\_IdentifierFDG32 1.315e+03 1.110e+03 1.185 0.23621   
## Item\_IdentifierFDG33 3.932e+02 6.828e+02 0.576 0.56475   
## Item\_IdentifierFDG34 -7.770e+02 7.364e+02 -1.055 0.29137   
## Item\_IdentifierFDG35 -1.767e+02 7.764e+02 -0.228 0.81998   
## Item\_IdentifierFDG38 -3.191e+02 8.843e+02 -0.361 0.71823   
## Item\_IdentifierFDG40 -1.479e+03 1.431e+03 -1.034 0.30126   
## Item\_IdentifierFDG41 -6.542e+02 8.109e+02 -0.807 0.41987   
## Item\_IdentifierFDG44 -9.409e+02 1.182e+03 -0.796 0.42620   
## Item\_IdentifierFDG45 2.431e+03 1.029e+03 2.363 0.01817 \*   
## Item\_IdentifierFDG46 3.493e+02 7.224e+02 0.484 0.62872   
## Item\_IdentifierFDG47 1.905e+03 1.504e+03 1.267 0.20522   
## Item\_IdentifierFDG50 -7.821e+02 8.535e+02 -0.916 0.35954   
## Item\_IdentifierFDG52 -1.653e+03 1.274e+03 -1.298 0.19449   
## Item\_IdentifierFDG53 -3.799e+02 6.520e+02 -0.583 0.56006   
## Item\_IdentifierFDG56 -9.005e+02 1.123e+03 -0.802 0.42252   
## Item\_IdentifierFDG57 -1.261e+03 1.218e+03 -1.036 0.30044   
## Item\_IdentifierFDG58 2.109e+02 7.462e+02 0.283 0.77743   
## Item\_IdentifierFDG59 -1.857e+03 1.342e+03 -1.384 0.16628   
## Item\_IdentifierFDG60 2.091e+03 1.244e+03 1.682 0.09270 .   
## Item\_IdentifierFDH02 -1.327e+03 8.919e+02 -1.488 0.13692   
## Item\_IdentifierFDH04 -5.522e+02 9.285e+02 -0.595 0.55208   
## Item\_IdentifierFDH05 1.639e+03 1.207e+03 1.358 0.17458   
## Item\_IdentifierFDH08 9.610e+02 1.226e+03 0.784 0.43331   
## Item\_IdentifierFDH09 -1.822e+03 1.225e+03 -1.487 0.13702   
## Item\_IdentifierFDH10 1.841e+02 8.458e+02 0.218 0.82772   
## Item\_IdentifierFDH12 -4.000e+02 8.345e+02 -0.479 0.63171   
## Item\_IdentifierFDH14 -1.116e+01 6.290e+02 -0.018 0.98584   
## Item\_IdentifierFDH16 -1.039e+03 9.065e+02 -1.146 0.25194   
## Item\_IdentifierFDH17 -5.661e+02 8.074e+02 -0.701 0.48325   
## Item\_IdentifierFDH19 8.454e+02 7.240e+02 1.168 0.24298   
## Item\_IdentifierFDH20 -4.800e+02 8.274e+02 -0.580 0.56187   
## Item\_IdentifierFDH21 2.945e+02 6.563e+02 0.449 0.65360   
## Item\_IdentifierFDH22 -2.168e+02 9.381e+02 -0.231 0.81722   
## Item\_IdentifierFDH24 2.721e+02 7.075e+02 0.385 0.70058   
## Item\_IdentifierFDH26 -4.002e+02 6.299e+02 -0.635 0.52523   
## Item\_IdentifierFDH27 -1.005e+02 6.105e+02 -0.165 0.86919   
## Item\_IdentifierFDH28 -1.553e+03 1.329e+03 -1.169 0.24256   
## Item\_IdentifierFDH31 -8.878e+02 8.410e+02 -1.056 0.29115   
## Item\_IdentifierFDH32 -2.001e+02 8.280e+02 -0.242 0.80900   
## Item\_IdentifierFDH33 -1.294e+03 1.265e+03 -1.022 0.30668   
## Item\_IdentifierFDH34 1.199e+03 8.427e+02 1.423 0.15492   
## Item\_IdentifierFDH35 2.045e+02 7.018e+02 0.291 0.77074   
## Item\_IdentifierFDH38 1.496e+02 7.142e+02 0.209 0.83410   
## Item\_IdentifierFDH40 -8.814e+02 9.491e+02 -0.929 0.35309   
## Item\_IdentifierFDH41 8.282e+02 1.048e+03 0.790 0.42941   
## Item\_IdentifierFDH44 -5.031e+00 6.570e+02 -0.008 0.99389   
## Item\_IdentifierFDH45 -1.285e+03 1.303e+03 -0.986 0.32400   
## Item\_IdentifierFDH46 -7.847e+02 9.125e+02 -0.860 0.38988   
## Item\_IdentifierFDH47 -3.417e+02 8.325e+02 -0.410 0.68148   
## Item\_IdentifierFDH48 -6.963e+02 8.928e+02 -0.780 0.43543   
## Item\_IdentifierFDH50 7.296e+02 8.006e+02 0.911 0.36213   
## Item\_IdentifierFDH52 -1.140e+03 1.211e+03 -0.941 0.34660   
## Item\_IdentifierFDH53 -6.311e+02 9.301e+02 -0.679 0.49746   
## Item\_IdentifierFDH56 -1.962e+02 6.930e+02 -0.283 0.77709   
## Item\_IdentifierFDH57 2.881e+01 6.374e+02 0.045 0.96395   
## Item\_IdentifierFDH58 1.339e+02 7.161e+02 0.187 0.85168   
## Item\_IdentifierFDH60 1.013e+03 9.008e+02 1.125 0.26083   
## Item\_IdentifierFDI02 -2.248e+02 8.019e+02 -0.280 0.77918   
## Item\_IdentifierFDI04 9.780e+02 8.922e+02 1.096 0.27301   
## Item\_IdentifierFDI05 -6.565e+02 1.096e+03 -0.599 0.54928   
## Item\_IdentifierFDI07 9.123e+02 8.916e+02 1.023 0.30626   
## Item\_IdentifierFDI08 1.655e+03 1.373e+03 1.205 0.22817   
## Item\_IdentifierFDI09 1.954e+03 1.325e+03 1.475 0.14037   
## Item\_IdentifierFDI10 5.941e+02 8.712e+02 0.682 0.49528   
## Item\_IdentifierFDI12 -1.028e+03 9.481e+02 -1.084 0.27837   
## Item\_IdentifierFDI14 -3.703e+02 6.296e+02 -0.588 0.55648   
## Item\_IdentifierFDI15 2.093e+03 1.527e+03 1.371 0.17048   
## Item\_IdentifierFDI16 -9.778e+02 1.195e+03 -0.818 0.41343   
## Item\_IdentifierFDI19 1.802e+03 1.316e+03 1.369 0.17103   
## Item\_IdentifierFDI20 1.949e+03 1.005e+03 1.939 0.05253 .   
## Item\_IdentifierFDI21 -1.040e+03 1.089e+03 -0.955 0.33955   
## Item\_IdentifierFDI22 1.441e+03 9.790e+02 1.472 0.14112   
## Item\_IdentifierFDI24 1.471e+03 7.921e+02 1.857 0.06336 .   
## Item\_IdentifierFDI26 6.180e+02 7.518e+02 0.822 0.41108   
## Item\_IdentifierFDI27 -1.864e+03 1.327e+03 -1.404 0.16036   
## Item\_IdentifierFDI28 -1.167e+03 9.669e+02 -1.206 0.22767   
## Item\_IdentifierFDI32 2.294e+02 7.067e+02 0.325 0.74556   
## Item\_IdentifierFDI33 -4.076e+01 8.924e+02 -0.046 0.96357   
## Item\_IdentifierFDI34 1.670e+03 1.195e+03 1.397 0.16232   
## Item\_IdentifierFDI35 1.803e+03 9.168e+02 1.966 0.04931 \*   
## Item\_IdentifierFDI36 9.396e+02 1.121e+03 0.838 0.40189   
## Item\_IdentifierFDI38 2.055e+03 1.007e+03 2.040 0.04135 \*   
## Item\_IdentifierFDI40 -4.725e+02 8.335e+02 -0.567 0.57079   
## Item\_IdentifierFDI41 4.700e+02 6.138e+02 0.766 0.44387   
## Item\_IdentifierFDI44 -1.029e+03 1.036e+03 -0.994 0.32040   
## Item\_IdentifierFDI45 7.413e+02 7.310e+02 1.014 0.31057   
## Item\_IdentifierFDI46 6.046e+02 1.427e+03 0.424 0.67185   
## Item\_IdentifierFDI48 -1.542e+03 1.254e+03 -1.230 0.21891   
## Item\_IdentifierFDI50 2.799e+03 1.179e+03 2.375 0.01757 \*   
## Item\_IdentifierFDI52 -5.486e+02 6.943e+02 -0.790 0.42946   
## Item\_IdentifierFDI53 -4.207e+02 8.341e+02 -0.504 0.61406   
## Item\_IdentifierFDI56 -2.554e+02 8.649e+02 -0.295 0.76782   
## Item\_IdentifierFDI57 1.733e+03 8.825e+02 1.963 0.04963 \*   
## Item\_IdentifierFDI58 -7.120e+02 9.162e+02 -0.777 0.43711   
## Item\_IdentifierFDI60 -1.046e+03 1.109e+03 -0.943 0.34573   
## Item\_IdentifierFDJ02 -3.962e+02 7.323e+02 -0.541 0.58845   
## Item\_IdentifierFDJ03 -9.199e+02 1.282e+03 -0.717 0.47312   
## Item\_IdentifierFDJ04 -6.885e+02 7.088e+02 -0.971 0.33137   
## Item\_IdentifierFDJ07 -6.047e+02 7.799e+02 -0.775 0.43822   
## Item\_IdentifierFDJ08 1.174e+03 8.783e+02 1.337 0.18134   
## Item\_IdentifierFDJ09 -1.550e+03 1.261e+03 -1.229 0.21904   
## Item\_IdentifierFDJ10 -6.958e+01 6.566e+02 -0.106 0.91561   
## Item\_IdentifierFDJ12 1.344e+03 1.045e+03 1.287 0.19823   
## Item\_IdentifierFDJ14 -8.103e+02 1.019e+03 -0.795 0.42642   
## Item\_IdentifierFDJ15 1.968e+03 8.266e+02 2.381 0.01731 \*   
## Item\_IdentifierFDJ16 -1.024e+03 1.161e+03 -0.882 0.37767   
## Item\_IdentifierFDJ20 -3.122e+02 7.186e+02 -0.435 0.66391   
## Item\_IdentifierFDJ21 1.249e+03 6.302e+02 1.982 0.04748 \*   
## Item\_IdentifierFDJ22 -1.197e+02 8.433e+02 -0.142 0.88714   
## Item\_IdentifierFDJ26 3.753e+02 1.074e+03 0.349 0.72681   
## Item\_IdentifierFDJ27 -4.364e+02 8.590e+02 -0.508 0.61149   
## Item\_IdentifierFDJ28 6.466e+02 9.246e+02 0.699 0.48442   
## Item\_IdentifierFDJ32 -1.784e+03 1.165e+03 -1.531 0.12579   
## Item\_IdentifierFDJ33 -9.906e+00 7.604e+02 -0.013 0.98961   
## Item\_IdentifierFDJ34 -6.805e+02 6.776e+02 -1.004 0.31529   
## Item\_IdentifierFDJ36 -6.450e+02 8.174e+02 -0.789 0.43010   
## Item\_IdentifierFDJ38 1.585e+03 8.497e+02 1.866 0.06214 .   
## Item\_IdentifierFDJ40 -2.270e+02 8.798e+02 -0.258 0.79642   
## Item\_IdentifierFDJ41 1.237e+03 1.502e+03 0.824 0.41002   
## Item\_IdentifierFDJ44 4.795e+02 7.136e+02 0.672 0.50160   
## Item\_IdentifierFDJ45 -1.380e+03 1.369e+03 -1.009 0.31325   
## Item\_IdentifierFDJ46 6.016e+02 8.151e+02 0.738 0.46049   
## Item\_IdentifierFDJ48 1.557e+03 1.340e+03 1.162 0.24526   
## Item\_IdentifierFDJ50 -1.259e+03 1.291e+03 -0.975 0.32952   
## Item\_IdentifierFDJ52 -9.014e+01 7.160e+02 -0.126 0.89982   
## Item\_IdentifierFDJ53 -9.004e+02 6.954e+02 -1.295 0.19545   
## Item\_IdentifierFDJ55 2.042e+03 1.118e+03 1.826 0.06784 .   
## Item\_IdentifierFDJ56 -4.125e+02 8.413e+02 -0.490 0.62391   
## Item\_IdentifierFDJ57 1.429e+03 7.996e+02 1.787 0.07405 .   
## Item\_IdentifierFDJ58 7.035e+02 6.998e+02 1.005 0.31482   
## Item\_IdentifierFDJ60 3.322e+02 7.028e+02 0.473 0.63645   
## Item\_IdentifierFDK02 -1.310e+01 7.014e+02 -0.019 0.98510   
## Item\_IdentifierFDK03 2.898e+03 1.425e+03 2.033 0.04205 \*   
## Item\_IdentifierFDK04 -1.328e+03 1.183e+03 -1.123 0.26153   
## Item\_IdentifierFDK08 -6.064e+02 7.868e+02 -0.771 0.44092   
## Item\_IdentifierFDK09 1.222e+03 1.177e+03 1.039 0.29903   
## Item\_IdentifierFDK10 -4.138e+01 8.103e+02 -0.051 0.95927   
## Item\_IdentifierFDK14 -1.174e+03 9.336e+02 -1.257 0.20878   
## Item\_IdentifierFDK15 -3.550e+01 8.131e+02 -0.044 0.96517   
## Item\_IdentifierFDK16 -1.745e+02 8.651e+02 -0.202 0.84016   
## Item\_IdentifierFDK20 1.685e+02 6.481e+02 0.260 0.79492   
## Item\_IdentifierFDK21 1.386e+03 1.372e+03 1.010 0.31243   
## Item\_IdentifierFDK22 4.003e+02 1.086e+03 0.369 0.71236   
## Item\_IdentifierFDK24 -1.303e+03 1.270e+03 -1.026 0.30497   
## Item\_IdentifierFDK25 1.294e+03 7.225e+02 1.791 0.07337 .   
## Item\_IdentifierFDK26 1.180e+03 8.032e+02 1.469 0.14185   
## Item\_IdentifierFDK27 -4.562e+02 7.239e+02 -0.630 0.52861   
## Item\_IdentifierFDK28 2.683e+03 1.477e+03 1.816 0.06940 .   
## Item\_IdentifierFDK32 9.558e+02 8.088e+02 1.182 0.23733   
## Item\_IdentifierFDK33 1.348e+03 1.035e+03 1.303 0.19269   
## Item\_IdentifierFDK34 1.273e+03 1.273e+03 1.000 0.31722   
## Item\_IdentifierFDK36 -1.720e+03 1.259e+03 -1.365 0.17215   
## Item\_IdentifierFDK38 1.158e+02 6.337e+02 0.183 0.85498   
## Item\_IdentifierFDK40 2.433e+03 1.510e+03 1.611 0.10714   
## Item\_IdentifierFDK41 -1.036e+03 9.166e+02 -1.130 0.25833   
## Item\_IdentifierFDK43 4.388e+01 6.730e+02 0.065 0.94802   
## Item\_IdentifierFDK44 -2.336e+02 7.769e+02 -0.301 0.76366   
## Item\_IdentifierFDK45 -3.346e+02 7.333e+02 -0.456 0.64818   
## Item\_IdentifierFDK46 1.161e+03 1.540e+03 0.754 0.45066   
## Item\_IdentifierFDK48 -7.875e+02 1.016e+03 -0.775 0.43809   
## Item\_IdentifierFDK50 8.770e+02 7.641e+02 1.148 0.25113   
## Item\_IdentifierFDK51 1.523e+03 1.533e+03 0.994 0.32027   
## Item\_IdentifierFDK52 1.765e+03 1.146e+03 1.540 0.12356   
## Item\_IdentifierFDK55 -8.426e+02 8.885e+02 -0.948 0.34296   
## Item\_IdentifierFDK56 8.149e+02 8.814e+02 0.925 0.35518   
## Item\_IdentifierFDK57 8.497e+02 1.245e+03 0.683 0.49480   
## Item\_IdentifierFDK58 -3.032e+02 7.586e+02 -0.400 0.68937   
## Item\_IdentifierFDK60 -4.645e+02 8.931e+02 -0.520 0.60306   
## Item\_IdentifierFDL02 3.027e+01 8.335e+02 0.036 0.97103   
## Item\_IdentifierFDL03 3.649e+02 9.201e+02 0.397 0.69168   
## Item\_IdentifierFDL04 -5.069e+02 7.732e+02 -0.656 0.51213   
## Item\_IdentifierFDL08 1.164e+03 1.339e+03 0.870 0.38448   
## Item\_IdentifierFDL09 -4.169e+02 7.195e+02 -0.579 0.56235   
## Item\_IdentifierFDL10 -7.606e+02 7.779e+02 -0.978 0.32824   
## Item\_IdentifierFDL12 -1.025e+03 1.156e+03 -0.887 0.37520   
## Item\_IdentifierFDL13 1.149e+03 1.207e+03 0.952 0.34120   
## Item\_IdentifierFDL14 1.372e+02 7.457e+02 0.184 0.85398   
## Item\_IdentifierFDL15 -1.966e+02 8.087e+02 -0.243 0.80788   
## Item\_IdentifierFDL16 -1.063e+03 1.283e+03 -0.828 0.40760   
## Item\_IdentifierFDL20 5.806e+00 7.032e+02 0.008 0.99341   
## Item\_IdentifierFDL21 -1.268e+03 1.338e+03 -0.948 0.34308   
## Item\_IdentifierFDL22 -9.472e+02 8.519e+02 -1.112 0.26623   
## Item\_IdentifierFDL24 1.918e+03 7.384e+02 2.598 0.00940 \*\*  
## Item\_IdentifierFDL25 -1.422e+03 9.819e+02 -1.449 0.14747   
## Item\_IdentifierFDL26 1.022e+03 7.473e+02 1.368 0.17140   
## Item\_IdentifierFDL27 -9.680e+02 1.131e+03 -0.856 0.39215   
## Item\_IdentifierFDL28 -8.670e+01 1.278e+03 -0.068 0.94592   
## Item\_IdentifierFDL32 -4.705e+02 7.711e+02 -0.610 0.54175   
## Item\_IdentifierFDL33 2.183e+02 8.902e+02 0.245 0.80628   
## Item\_IdentifierFDL34 7.909e+02 6.102e+02 1.296 0.19496   
## Item\_IdentifierFDL36 -7.709e+02 8.628e+02 -0.893 0.37164   
## Item\_IdentifierFDL38 -3.908e+02 8.649e+02 -0.452 0.65137   
## Item\_IdentifierFDL39 -3.950e+01 7.873e+02 -0.050 0.95998   
## Item\_IdentifierFDL40 -7.630e+02 8.151e+02 -0.936 0.34925   
## Item\_IdentifierFDL43 -1.127e+03 9.834e+02 -1.146 0.25192   
## Item\_IdentifierFDL44 7.331e+02 7.214e+02 1.016 0.30955   
## Item\_IdentifierFDL45 3.286e+02 6.793e+02 0.484 0.62860   
## Item\_IdentifierFDL46 -8.438e+02 6.864e+02 -1.229 0.21898   
## Item\_IdentifierFDL48 -1.548e+03 1.232e+03 -1.256 0.20902   
## Item\_IdentifierFDL50 -7.247e+02 7.528e+02 -0.963 0.33572   
## Item\_IdentifierFDL51 6.751e+02 1.048e+03 0.644 0.51941   
## Item\_IdentifierFDL52 -1.313e+03 1.328e+03 -0.989 0.32259   
## Item\_IdentifierFDL56 -4.755e+02 9.018e+02 -0.527 0.59802   
## Item\_IdentifierFDL57 2.633e+03 1.473e+03 1.788 0.07386 .   
## Item\_IdentifierFDL58 1.866e+03 1.510e+03 1.236 0.21643   
## Item\_IdentifierFDM01 -2.838e+02 7.893e+02 -0.359 0.71925   
## Item\_IdentifierFDM02 -7.735e+02 9.233e+02 -0.838 0.40221   
## Item\_IdentifierFDM03 -7.667e+02 7.860e+02 -0.975 0.32935   
## Item\_IdentifierFDM04 -1.290e+03 1.209e+03 -1.068 0.28578   
## Item\_IdentifierFDM08 1.239e+03 1.124e+03 1.102 0.27030   
## Item\_IdentifierFDM09 -2.215e+02 7.934e+02 -0.279 0.78008   
## Item\_IdentifierFDM10 4.662e+02 1.064e+03 0.438 0.66119   
## Item\_IdentifierFDM12 -4.007e+02 9.610e+02 -0.417 0.67675   
## Item\_IdentifierFDM13 -8.974e+02 6.935e+02 -1.294 0.19566   
## Item\_IdentifierFDM14 -5.783e+02 8.858e+02 -0.653 0.51387   
## Item\_IdentifierFDM15 2.474e+02 6.365e+02 0.389 0.69756   
## Item\_IdentifierFDM16 -5.669e+02 1.189e+03 -0.477 0.63347   
## Item\_IdentifierFDM20 2.495e+03 1.355e+03 1.842 0.06549 .   
## Item\_IdentifierFDM21 2.231e+03 1.478e+03 1.510 0.13115   
## Item\_IdentifierFDM22 -1.065e+03 1.235e+03 -0.862 0.38877   
## Item\_IdentifierFDM24 -2.916e+02 6.946e+02 -0.420 0.67463   
## Item\_IdentifierFDM25 7.516e+02 7.498e+02 1.002 0.31619   
## Item\_IdentifierFDM27 4.272e+02 7.142e+02 0.598 0.54973   
## Item\_IdentifierFDM28 1.049e+02 7.828e+02 0.134 0.89338   
## Item\_IdentifierFDM32 -8.194e+02 9.385e+02 -0.873 0.38262   
## Item\_IdentifierFDM33 1.792e+03 1.147e+03 1.563 0.11806   
## Item\_IdentifierFDM34 -1.072e+02 7.388e+02 -0.145 0.88462   
## Item\_IdentifierFDM36 3.530e+02 7.143e+02 0.494 0.62113   
## Item\_IdentifierFDM38 -8.959e+02 1.357e+03 -0.660 0.50911   
## Item\_IdentifierFDM39 1.780e+03 7.984e+02 2.230 0.02578 \*   
## Item\_IdentifierFDM40 -2.376e+02 8.010e+02 -0.297 0.76676   
## Item\_IdentifierFDM44 -5.948e+02 7.602e+02 -0.782 0.43398   
## Item\_IdentifierFDM45 -1.146e+02 7.250e+02 -0.158 0.87445   
## Item\_IdentifierFDM46 -6.565e+02 8.789e+02 -0.747 0.45514   
## Item\_IdentifierFDM50 -1.378e+03 1.149e+03 -1.199 0.23051   
## Item\_IdentifierFDM51 -3.987e+02 7.926e+02 -0.503 0.61497   
## Item\_IdentifierFDM52 5.433e+02 7.319e+02 0.742 0.45792   
## Item\_IdentifierFDM56 -1.151e+03 7.745e+02 -1.486 0.13733   
## Item\_IdentifierFDM57 -1.042e+03 9.783e+02 -1.065 0.28677   
## Item\_IdentifierFDM58 1.478e+02 7.173e+02 0.206 0.83676   
## Item\_IdentifierFDM60 -1.493e+03 1.332e+03 -1.121 0.26232   
## Item\_IdentifierFDN01 2.784e+02 7.441e+02 0.374 0.70834   
## Item\_IdentifierFDN02 1.361e+03 9.879e+02 1.378 0.16836   
## Item\_IdentifierFDN03 9.312e+02 1.397e+03 0.666 0.50521   
## Item\_IdentifierFDN04 1.304e+02 7.545e+02 0.173 0.86281   
## Item\_IdentifierFDN08 -1.201e+02 7.382e+02 -0.163 0.87078   
## Item\_IdentifierFDN09 8.835e+02 1.322e+03 0.668 0.50403   
## Item\_IdentifierFDN10 -9.943e+02 7.284e+02 -1.365 0.17229   
## Item\_IdentifierFDN12 -3.905e+02 7.142e+02 -0.547 0.58457   
## Item\_IdentifierFDN13 -7.170e+02 8.176e+02 -0.877 0.38056   
## Item\_IdentifierFDN15 -3.307e+02 6.297e+02 -0.525 0.59944   
## Item\_IdentifierFDN16 -4.944e+02 8.086e+02 -0.611 0.54095   
## Item\_IdentifierFDN20 7.343e+02 8.545e+02 0.859 0.39019   
## Item\_IdentifierFDN21 -2.105e+02 6.670e+02 -0.316 0.75228   
## Item\_IdentifierFDN22 1.269e+03 1.441e+03 0.881 0.37856   
## Item\_IdentifierFDN23 4.127e+02 6.541e+02 0.631 0.52812   
## Item\_IdentifierFDN24 -1.031e+03 1.203e+03 -0.857 0.39147   
## Item\_IdentifierFDN25 -1.237e+03 1.173e+03 -1.055 0.29167   
## Item\_IdentifierFDN27 -6.833e+02 7.848e+02 -0.871 0.38394   
## Item\_IdentifierFDN28 -9.460e+02 8.168e+02 -1.158 0.24683   
## Item\_IdentifierFDN31 1.452e+02 9.091e+02 0.160 0.87312   
## Item\_IdentifierFDN32 1.125e+03 8.379e+02 1.343 0.17947   
## Item\_IdentifierFDN33 -1.169e+03 9.118e+02 -1.282 0.20000   
## Item\_IdentifierFDN34 1.111e+03 7.209e+02 1.541 0.12337   
## Item\_IdentifierFDN38 2.008e+03 1.394e+03 1.440 0.14992   
## Item\_IdentifierFDN39 3.749e+02 7.151e+02 0.524 0.60008   
## Item\_IdentifierFDN40 2.541e+02 7.430e+02 0.342 0.73237   
## Item\_IdentifierFDN44 5.605e+02 7.572e+02 0.740 0.45919   
## Item\_IdentifierFDN45 9.575e+02 1.174e+03 0.815 0.41482   
## Item\_IdentifierFDN46 -6.595e+01 7.979e+02 -0.083 0.93412   
## Item\_IdentifierFDN48 -5.124e+02 8.913e+02 -0.575 0.56541   
## Item\_IdentifierFDN49 -1.289e+03 1.334e+03 -0.966 0.33399   
## Item\_IdentifierFDN50 -1.305e+03 9.688e+02 -1.347 0.17796   
## Item\_IdentifierFDN51 2.697e+03 1.565e+03 1.723 0.08491 .   
## Item\_IdentifierFDN52 -1.977e+03 1.371e+03 -1.442 0.14940   
## Item\_IdentifierFDN56 6.521e+02 6.137e+02 1.063 0.28804   
## Item\_IdentifierFDN57 3.566e+02 6.292e+02 0.567 0.57090   
## Item\_IdentifierFDN58 2.799e+03 1.202e+03 2.328 0.01994 \*   
## Item\_IdentifierFDN60 7.925e+02 6.578e+02 1.205 0.22835   
## Item\_IdentifierFDO01 -5.499e+02 7.005e+02 -0.785 0.43246   
## Item\_IdentifierFDO03 2.870e+03 1.228e+03 2.337 0.01948 \*   
## Item\_IdentifierFDO04 -1.599e+03 1.227e+03 -1.304 0.19230   
## Item\_IdentifierFDO08 -8.452e+01 7.017e+02 -0.120 0.90414   
## Item\_IdentifierFDO09 2.033e+03 1.510e+03 1.346 0.17836   
## Item\_IdentifierFDO10 -1.058e+03 1.135e+03 -0.932 0.35141   
## Item\_IdentifierFDO11 2.251e+03 1.415e+03 1.590 0.11181   
## Item\_IdentifierFDO12 9.498e+02 8.889e+02 1.069 0.28533   
## Item\_IdentifierFDO13 -5.491e+01 7.323e+02 -0.075 0.94023   
## Item\_IdentifierFDO15 -9.059e+02 1.018e+03 -0.890 0.37374   
## Item\_IdentifierFDO16 -9.700e+01 9.558e+02 -0.101 0.91917   
## Item\_IdentifierFDO19 -1.124e+03 1.213e+03 -0.927 0.35418   
## Item\_IdentifierFDO20 1.508e+03 1.414e+03 1.066 0.28639   
## Item\_IdentifierFDO21 1.731e+02 1.158e+03 0.150 0.88113   
## Item\_IdentifierFDO22 -9.430e+02 9.397e+02 -1.003 0.31567   
## Item\_IdentifierFDO23 -4.676e+02 8.352e+02 -0.560 0.57555   
## Item\_IdentifierFDO24 3.855e+02 6.614e+02 0.583 0.56003   
## Item\_IdentifierFDO25 1.235e+03 1.003e+03 1.232 0.21815   
## Item\_IdentifierFDO27 -5.622e+02 8.715e+02 -0.645 0.51888   
## Item\_IdentifierFDO28 -1.040e+03 7.228e+02 -1.439 0.15028   
## Item\_IdentifierFDO31 -1.067e+03 9.789e+02 -1.090 0.27583   
## Item\_IdentifierFDO32 -1.398e+03 1.246e+03 -1.122 0.26177   
## Item\_IdentifierFDO33 -2.599e+01 1.257e+03 -0.021 0.98350   
## Item\_IdentifierFDO34 1.044e+03 6.915e+02 1.510 0.13115   
## Item\_IdentifierFDO36 5.167e+02 8.039e+02 0.643 0.52040   
## Item\_IdentifierFDO37 1.716e+03 1.179e+03 1.455 0.14562   
## Item\_IdentifierFDO38 -1.129e+03 9.995e+02 -1.129 0.25884   
## Item\_IdentifierFDO39 1.615e+03 8.104e+02 1.992 0.04638 \*   
## Item\_IdentifierFDO40 1.644e+02 6.577e+02 0.250 0.80261   
## Item\_IdentifierFDO44 -3.754e+02 8.152e+02 -0.461 0.64515   
## Item\_IdentifierFDO45 -1.105e+03 8.865e+02 -1.247 0.21261   
## Item\_IdentifierFDO46 7.884e+02 8.393e+02 0.939 0.34754   
## Item\_IdentifierFDO48 8.190e+02 1.147e+03 0.714 0.47529   
## Item\_IdentifierFDO49 -1.265e+03 1.274e+03 -0.993 0.32076   
## Item\_IdentifierFDO50 -6.224e+02 8.669e+02 -0.718 0.47279   
## Item\_IdentifierFDO51 -1.807e+03 1.374e+03 -1.315 0.18862   
## Item\_IdentifierFDO52 4.584e+02 6.946e+02 0.660 0.50930   
## Item\_IdentifierFDO56 -4.558e+02 7.357e+02 -0.620 0.53554   
## Item\_IdentifierFDO57 4.928e+02 6.682e+02 0.738 0.46082   
## Item\_IdentifierFDO58 1.769e+02 7.040e+02 0.251 0.80157   
## Item\_IdentifierFDO60 -1.517e+03 1.274e+03 -1.191 0.23380   
## Item\_IdentifierFDP01 -2.597e+02 8.090e+02 -0.321 0.74820   
## Item\_IdentifierFDP03 -7.248e+01 6.638e+02 -0.109 0.91305   
## Item\_IdentifierFDP04 -1.421e+03 1.120e+03 -1.269 0.20459   
## Item\_IdentifierFDP07 4.478e+02 9.210e+02 0.486 0.62679   
## Item\_IdentifierFDP08 1.182e+03 9.023e+02 1.310 0.19031   
## Item\_IdentifierFDP09 1.232e+03 1.052e+03 1.171 0.24175   
## Item\_IdentifierFDP10 -5.810e+02 7.498e+02 -0.775 0.43850   
## Item\_IdentifierFDP11 6.117e+02 1.051e+03 0.582 0.56068   
## Item\_IdentifierFDP12 -1.752e+03 1.376e+03 -1.273 0.20291   
## Item\_IdentifierFDP13 -1.413e+03 1.356e+03 -1.042 0.29742   
## Item\_IdentifierFDP15 3.321e+03 1.583e+03 2.097 0.03601 \*   
## Item\_IdentifierFDP16 2.110e+03 1.355e+03 1.557 0.11951   
## Item\_IdentifierFDP19 2.453e+02 6.730e+02 0.364 0.71554   
## Item\_IdentifierFDP20 -8.981e+02 7.508e+02 -1.196 0.23165   
## Item\_IdentifierFDP21 1.547e+03 9.052e+02 1.709 0.08744 .   
## Item\_IdentifierFDP22 -1.671e+03 1.212e+03 -1.379 0.16804   
## Item\_IdentifierFDP23 1.201e+03 1.102e+03 1.089 0.27599   
## Item\_IdentifierFDP24 -3.617e+02 6.777e+02 -0.534 0.59350   
## Item\_IdentifierFDP25 1.368e+03 1.040e+03 1.316 0.18822   
## Item\_IdentifierFDP26 -6.985e+02 8.091e+02 -0.863 0.38804   
## Item\_IdentifierFDP27 1.076e+03 8.296e+02 1.297 0.19472   
## Item\_IdentifierFDP28 1.007e+03 1.478e+03 0.682 0.49544   
## Item\_IdentifierFDP31 -1.353e+03 1.121e+03 -1.207 0.22734   
## Item\_IdentifierFDP32 -3.712e+02 7.485e+02 -0.496 0.62000   
## Item\_IdentifierFDP33 2.420e+03 1.445e+03 1.674 0.09410 .   
## Item\_IdentifierFDP34 1.053e+03 7.069e+02 1.489 0.13641   
## Item\_IdentifierFDP36 -8.783e+02 1.303e+03 -0.674 0.50015   
## Item\_IdentifierFDP37 3.297e+02 7.074e+02 0.466 0.64124   
## Item\_IdentifierFDP38 -1.387e+03 1.233e+03 -1.125 0.26081   
## Item\_IdentifierFDP39 -1.026e+03 1.189e+03 -0.863 0.38807   
## Item\_IdentifierFDP40 -4.358e+02 7.661e+02 -0.569 0.56944   
## Item\_IdentifierFDP44 -4.408e+02 7.959e+02 -0.554 0.57974   
## Item\_IdentifierFDP45 7.135e+02 1.429e+03 0.499 0.61750   
## Item\_IdentifierFDP46 -2.512e+02 9.372e+02 -0.268 0.78867   
## Item\_IdentifierFDP48 2.008e+03 8.230e+02 2.439 0.01473 \*   
## Item\_IdentifierFDP49 -1.269e+03 1.163e+03 -1.091 0.27518   
## Item\_IdentifierFDP51 2.109e+02 8.387e+02 0.251 0.80149   
## Item\_IdentifierFDP52 2.105e+03 1.201e+03 1.753 0.07969 .   
## Item\_IdentifierFDP56 -1.456e+03 1.258e+03 -1.157 0.24714   
## Item\_IdentifierFDP57 -5.818e+02 8.132e+02 -0.715 0.47438   
## Item\_IdentifierFDP58 9.202e+02 1.139e+03 0.808 0.41926   
## Item\_IdentifierFDP59 -5.770e+02 8.076e+02 -0.714 0.47499   
## Item\_IdentifierFDP60 -6.917e+02 7.796e+02 -0.887 0.37501   
## Item\_IdentifierFDQ01 1.467e+03 1.449e+03 1.013 0.31125   
## Item\_IdentifierFDQ03 2.102e+02 1.282e+03 0.164 0.86979   
## Item\_IdentifierFDQ04 -6.222e+02 1.396e+03 -0.446 0.65590   
## Item\_IdentifierFDQ07 1.147e+03 1.125e+03 1.020 0.30799   
## Item\_IdentifierFDQ08 -9.747e+02 1.104e+03 -0.883 0.37738   
## Item\_IdentifierFDQ09 -4.021e+02 7.208e+02 -0.558 0.57700   
## Item\_IdentifierFDQ10 1.142e+03 7.127e+02 1.603 0.10906   
## Item\_IdentifierFDQ11 7.043e+02 1.477e+03 0.477 0.63346   
## Item\_IdentifierFDQ12 5.418e+02 1.218e+03 0.445 0.65641   
## Item\_IdentifierFDQ13 -5.818e+02 9.289e+02 -0.626 0.53114   
## Item\_IdentifierFDQ14 -4.538e+01 6.881e+02 -0.066 0.94741   
## Item\_IdentifierFDQ15 -6.480e+02 9.499e+02 -0.682 0.49516   
## Item\_IdentifierFDQ16 8.029e+01 7.798e+02 0.103 0.91799   
## Item\_IdentifierFDQ19 2.575e+03 1.347e+03 1.912 0.05593 .   
## Item\_IdentifierFDQ20 -1.776e+03 1.339e+03 -1.326 0.18478   
## Item\_IdentifierFDQ21 2.842e+02 6.988e+02 0.407 0.68423   
## Item\_IdentifierFDQ22 -2.041e+03 1.404e+03 -1.453 0.14624   
## Item\_IdentifierFDQ23 -4.360e+02 8.161e+02 -0.534 0.59320   
## Item\_IdentifierFDQ24 2.180e+03 1.415e+03 1.541 0.12346   
## Item\_IdentifierFDQ25 4.285e+02 7.692e+02 0.557 0.57752   
## Item\_IdentifierFDQ26 -1.383e+03 1.133e+03 -1.221 0.22226   
## Item\_IdentifierFDQ27 -5.826e+01 8.532e+02 -0.068 0.94556   
## Item\_IdentifierFDQ28 6.884e+02 7.416e+02 0.928 0.35329   
## Item\_IdentifierFDQ31 -1.032e+03 8.931e+02 -1.155 0.24816   
## Item\_IdentifierFDQ32 1.339e+02 6.862e+02 0.195 0.84531   
## Item\_IdentifierFDQ33 1.767e+03 7.352e+02 2.403 0.01627 \*   
## Item\_IdentifierFDQ34 -6.938e+02 7.520e+02 -0.923 0.35626   
## Item\_IdentifierFDQ36 -1.201e+03 1.340e+03 -0.896 0.37013   
## Item\_IdentifierFDQ37 2.775e+03 8.953e+02 3.099 0.00195 \*\*  
## Item\_IdentifierFDQ39 1.573e+03 8.213e+02 1.916 0.05543 .   
## Item\_IdentifierFDQ40 4.304e+02 7.109e+02 0.605 0.54497   
## Item\_IdentifierFDQ44 3.434e+02 7.269e+02 0.472 0.63663   
## Item\_IdentifierFDQ45 5.492e+02 8.054e+02 0.682 0.49536   
## Item\_IdentifierFDQ46 -3.644e+02 7.361e+02 -0.495 0.62062   
## Item\_IdentifierFDQ47 -1.079e+03 1.402e+03 -0.769 0.44173   
## Item\_IdentifierFDQ48 -1.020e+03 8.228e+02 -1.240 0.21497   
## Item\_IdentifierFDQ49 -5.387e+02 7.041e+02 -0.765 0.44426   
## Item\_IdentifierFDQ51 -1.356e+03 1.274e+03 -1.064 0.28748   
## Item\_IdentifierFDQ52 2.700e+03 1.370e+03 1.971 0.04873 \*   
## Item\_IdentifierFDQ55 -1.346e+02 7.883e+02 -0.171 0.86442   
## Item\_IdentifierFDQ56 -3.354e+02 9.083e+02 -0.369 0.71192   
## Item\_IdentifierFDQ57 2.047e+01 7.304e+02 0.028 0.97765   
## Item\_IdentifierFDQ58 -2.081e+02 6.669e+02 -0.312 0.75501   
## Item\_IdentifierFDQ59 -1.046e+03 9.397e+02 -1.114 0.26553   
## Item\_IdentifierFDQ60 -9.148e+01 1.245e+03 -0.073 0.94143   
## Item\_IdentifierFDR01 9.240e+02 9.038e+02 1.022 0.30665   
## Item\_IdentifierFDR02 -3.352e+01 7.221e+02 -0.046 0.96298   
## Item\_IdentifierFDR03 1.901e+03 1.176e+03 1.616 0.10620   
## Item\_IdentifierFDR04 -6.902e+02 7.882e+02 -0.876 0.38119   
## Item\_IdentifierFDR07 -8.136e+02 8.976e+02 -0.906 0.36475   
## Item\_IdentifierFDR08 -5.381e+02 7.412e+02 -0.726 0.46783   
## Item\_IdentifierFDR09 1.180e+03 1.467e+03 0.804 0.42118   
## Item\_IdentifierFDR10 1.066e+02 7.243e+02 0.147 0.88299   
## Item\_IdentifierFDR11 3.533e+02 7.599e+02 0.465 0.64197   
## Item\_IdentifierFDR12 -1.018e+02 7.366e+02 -0.138 0.89006   
## Item\_IdentifierFDR13 -9.309e+02 8.472e+02 -1.099 0.27191   
## Item\_IdentifierFDR14 -1.454e+03 1.216e+03 -1.196 0.23180   
## Item\_IdentifierFDR15 2.833e+01 6.444e+02 0.044 0.96494   
## Item\_IdentifierFDR16 2.550e+03 1.143e+03 2.231 0.02568 \*   
## Item\_IdentifierFDR19 7.434e+02 6.607e+02 1.125 0.26053   
## Item\_IdentifierFDR20 -1.174e+03 1.263e+03 -0.930 0.35242   
## Item\_IdentifierFDR21 2.399e+02 7.398e+02 0.324 0.74571   
## Item\_IdentifierFDR22 1.940e+02 7.191e+02 0.270 0.78727   
## Item\_IdentifierFDR23 1.210e+03 7.267e+02 1.665 0.09602 .   
## Item\_IdentifierFDR24 -1.019e+03 9.095e+02 -1.121 0.26238   
## Item\_IdentifierFDR25 1.503e+03 1.556e+03 0.966 0.33421   
## Item\_IdentifierFDR26 -8.764e+01 7.684e+02 -0.114 0.90920   
## Item\_IdentifierFDR27 2.479e+00 6.382e+02 0.004 0.99690   
## Item\_IdentifierFDR28 4.460e+02 7.263e+02 0.614 0.53916   
## Item\_IdentifierFDR31 4.250e+02 6.851e+02 0.620 0.53506   
## Item\_IdentifierFDR32 1.582e+03 1.174e+03 1.348 0.17781   
## Item\_IdentifierFDR33 -1.665e+02 7.492e+02 -0.222 0.82410   
## Item\_IdentifierFDR34 2.785e+03 1.197e+03 2.326 0.02007 \*   
## Item\_IdentifierFDR35 1.761e+03 8.977e+02 1.962 0.04983 \*   
## Item\_IdentifierFDR36 -1.164e+03 1.325e+03 -0.879 0.37948   
## Item\_IdentifierFDR37 1.769e+03 7.782e+02 2.273 0.02303 \*   
## Item\_IdentifierFDR39 1.511e+03 9.244e+02 1.634 0.10224   
## Item\_IdentifierFDR40 -1.069e+03 1.065e+03 -1.004 0.31542   
## Item\_IdentifierFDR43 -1.464e+03 1.330e+03 -1.101 0.27108   
## Item\_IdentifierFDR44 -4.465e+02 6.252e+02 -0.714 0.47519   
## Item\_IdentifierFDR45 3.442e+03 1.325e+03 2.598 0.00939 \*\*  
## Item\_IdentifierFDR46 3.825e+02 6.180e+02 0.619 0.53594   
## Item\_IdentifierFDR47 8.529e+02 9.175e+02 0.930 0.35265   
## Item\_IdentifierFDR48 -2.129e+02 6.219e+02 -0.342 0.73210   
## Item\_IdentifierFDR49 -1.070e+03 1.267e+03 -0.844 0.39870   
## Item\_IdentifierFDR51 3.811e+02 7.419e+02 0.514 0.60745   
## Item\_IdentifierFDR52 6.781e+02 8.267e+02 0.820 0.41207   
## Item\_IdentifierFDR55 1.159e+03 8.285e+02 1.399 0.16195   
## Item\_IdentifierFDR56 2.004e+03 9.659e+02 2.075 0.03801 \*   
## Item\_IdentifierFDR57 -1.610e+02 9.363e+02 -0.172 0.86346   
## Item\_IdentifierFDR58 -6.134e+02 8.392e+02 -0.731 0.46481   
## Item\_IdentifierFDR59 1.608e+03 1.489e+03 1.080 0.28037   
## Item\_IdentifierFDR60 -1.585e+03 9.844e+02 -1.610 0.10741   
## Item\_IdentifierFDS01 4.808e+02 7.490e+02 0.642 0.52090   
## Item\_IdentifierFDS02 1.437e+03 9.172e+02 1.566 0.11728   
## Item\_IdentifierFDS03 -6.655e+02 1.092e+03 -0.609 0.54234   
## Item\_IdentifierFDS04 4.340e+02 6.332e+02 0.685 0.49315   
## Item\_IdentifierFDS07 -6.164e+02 7.983e+02 -0.772 0.44005   
## Item\_IdentifierFDS08 -5.371e+02 8.949e+02 -0.600 0.54839   
## Item\_IdentifierFDS09 -1.377e+03 1.268e+03 -1.085 0.27775   
## Item\_IdentifierFDS10 6.772e+02 8.513e+02 0.795 0.42638   
## Item\_IdentifierFDS11 1.668e+03 1.134e+03 1.471 0.14137   
## Item\_IdentifierFDS12 4.438e+02 6.876e+02 0.645 0.51868   
## Item\_IdentifierFDS13 9.942e+02 1.531e+03 0.649 0.51620   
## Item\_IdentifierFDS14 -3.981e+02 7.477e+02 -0.532 0.59446   
## Item\_IdentifierFDS15 3.003e+02 7.614e+02 0.394 0.69328   
## Item\_IdentifierFDS16 1.109e+03 6.305e+02 1.758 0.07879 .   
## Item\_IdentifierFDS19 -7.535e+02 9.718e+02 -0.775 0.43819   
## Item\_IdentifierFDS20 6.931e+02 8.646e+02 0.802 0.42282   
## Item\_IdentifierFDS21 -8.910e+02 1.129e+03 -0.789 0.42986   
## Item\_IdentifierFDS22 -1.690e+03 1.357e+03 -1.246 0.21286   
## Item\_IdentifierFDS23 2.957e+01 6.785e+02 0.044 0.96524   
## Item\_IdentifierFDS24 -1.009e+03 8.955e+02 -1.126 0.26005   
## Item\_IdentifierFDS25 -3.926e+01 7.773e+02 -0.051 0.95972   
## Item\_IdentifierFDS26 2.462e+03 1.509e+03 1.631 0.10291   
## Item\_IdentifierFDS27 -1.333e+02 8.797e+02 -0.152 0.87956   
## Item\_IdentifierFDS28 -1.766e+03 1.142e+03 -1.546 0.12210   
## Item\_IdentifierFDS31 4.961e+02 7.562e+02 0.656 0.51184   
## Item\_IdentifierFDS32 -2.713e+02 6.293e+02 -0.431 0.66644   
## Item\_IdentifierFDS33 -4.839e+02 8.573e+02 -0.564 0.57245   
## Item\_IdentifierFDS34 -6.795e+02 7.578e+02 -0.897 0.36987   
## Item\_IdentifierFDS35 -1.189e+03 1.092e+03 -1.088 0.27659   
## Item\_IdentifierFDS36 4.069e+02 7.462e+02 0.545 0.58555   
## Item\_IdentifierFDS37 -4.532e+02 7.165e+02 -0.632 0.52711   
## Item\_IdentifierFDS39 5.070e+02 7.988e+02 0.635 0.52564   
## Item\_IdentifierFDS40 -1.445e+03 1.344e+03 -1.075 0.28238   
## Item\_IdentifierFDS43 3.774e+02 8.524e+02 0.443 0.65794   
## Item\_IdentifierFDS44 2.584e+03 1.287e+03 2.009 0.04462 \*   
## Item\_IdentifierFDS45 1.737e+02 7.444e+02 0.233 0.81547   
## Item\_IdentifierFDS46 -1.143e+02 7.314e+02 -0.156 0.87579   
## Item\_IdentifierFDS47 -9.713e+02 8.788e+02 -1.105 0.26911   
## Item\_IdentifierFDS48 -8.379e+01 6.592e+02 -0.127 0.89886   
## Item\_IdentifierFDS49 -6.496e+02 9.863e+02 -0.659 0.51013   
## Item\_IdentifierFDS50 1.070e+03 1.148e+03 0.931 0.35164   
## Item\_IdentifierFDS51 -1.659e+03 1.207e+03 -1.375 0.16933   
## Item\_IdentifierFDS52 -4.751e+02 7.628e+02 -0.623 0.53340   
## Item\_IdentifierFDS55 5.619e+02 6.148e+02 0.914 0.36078   
## Item\_IdentifierFDS56 1.672e+03 1.514e+03 1.104 0.26946   
## Item\_IdentifierFDS57 -2.192e+02 6.303e+02 -0.348 0.72804   
## Item\_IdentifierFDS58 9.728e+02 7.156e+02 1.359 0.17405   
## Item\_IdentifierFDS59 -1.193e+02 7.239e+02 -0.165 0.86909   
## Item\_IdentifierFDS60 1.999e+02 8.459e+02 0.236 0.81315   
## Item\_IdentifierFDT01 1.162e+03 1.085e+03 1.071 0.28416   
## Item\_IdentifierFDT02 -1.771e+03 1.413e+03 -1.254 0.21004   
## Item\_IdentifierFDT03 -4.716e+02 7.912e+02 -0.596 0.55115   
## Item\_IdentifierFDT04 -1.229e+03 1.344e+03 -0.915 0.36043   
## Item\_IdentifierFDT07 1.220e+03 1.425e+03 0.856 0.39177   
## Item\_IdentifierFDT08 1.350e+02 6.586e+02 0.205 0.83759   
## Item\_IdentifierFDT09 3.559e+01 6.633e+02 0.054 0.95721   
## Item\_IdentifierFDT10 -1.223e+03 1.139e+03 -1.074 0.28269   
## Item\_IdentifierFDT11 3.217e+02 8.356e+02 0.385 0.70024   
## Item\_IdentifierFDT12 1.223e+03 1.140e+03 1.073 0.28323   
## Item\_IdentifierFDT13 9.684e+02 8.615e+02 1.124 0.26102   
## Item\_IdentifierFDT14 2.006e+02 7.279e+02 0.276 0.78293   
## Item\_IdentifierFDT15 4.177e+02 8.276e+02 0.505 0.61377   
## Item\_IdentifierFDT16 2.983e+03 1.507e+03 1.980 0.04778 \*   
## Item\_IdentifierFDT19 1.197e+03 7.737e+02 1.548 0.12174   
## Item\_IdentifierFDT20 -1.623e+03 1.336e+03 -1.215 0.22424   
## Item\_IdentifierFDT21 1.584e+03 1.353e+03 1.171 0.24157   
## Item\_IdentifierFDT22 -1.357e+03 1.161e+03 -1.169 0.24250   
## Item\_IdentifierFDT23 -9.248e+02 9.925e+02 -0.932 0.35148   
## Item\_IdentifierFDT24 -6.156e+02 9.529e+02 -0.646 0.51828   
## Item\_IdentifierFDT25 -4.824e+01 6.656e+02 -0.072 0.94223   
## Item\_IdentifierFDT26 -4.434e+02 6.985e+02 -0.635 0.52557   
## Item\_IdentifierFDT27 1.215e+03 1.241e+03 0.979 0.32747   
## Item\_IdentifierFDT28 1.944e+02 6.598e+02 0.295 0.76823   
## Item\_IdentifierFDT31 7.710e+02 8.425e+02 0.915 0.36010   
## Item\_IdentifierFDT32 7.291e+02 8.056e+02 0.905 0.36551   
## Item\_IdentifierFDT33 1.597e+02 9.647e+02 0.166 0.86848   
## Item\_IdentifierFDT34 -4.589e+02 7.588e+02 -0.605 0.54538   
## Item\_IdentifierFDT35 -4.001e+02 1.255e+03 -0.319 0.74990   
## Item\_IdentifierFDT36 -1.354e+03 1.367e+03 -0.991 0.32188   
## Item\_IdentifierFDT37 1.860e+03 1.447e+03 1.285 0.19878   
## Item\_IdentifierFDT38 -6.971e+02 1.034e+03 -0.674 0.50037   
## Item\_IdentifierFDT39 2.896e+02 6.934e+02 0.418 0.67616   
## Item\_IdentifierFDT40 -5.152e+02 6.354e+02 -0.811 0.41743   
## Item\_IdentifierFDT43 -1.255e+03 1.203e+03 -1.043 0.29701   
## Item\_IdentifierFDT44 -5.807e+02 8.483e+02 -0.685 0.49364   
## Item\_IdentifierFDT45 -1.186e+03 1.229e+03 -0.965 0.33460   
## Item\_IdentifierFDT46 -1.243e+03 1.204e+03 -1.033 0.30174   
## Item\_IdentifierFDT47 -4.415e+02 9.535e+02 -0.463 0.64337   
## Item\_IdentifierFDT48 6.481e+02 9.131e+02 0.710 0.47788   
## Item\_IdentifierFDT49 -6.671e+02 7.355e+02 -0.907 0.36442   
## Item\_IdentifierFDT50 -1.045e+03 8.308e+02 -1.257 0.20867   
## Item\_IdentifierFDT51 -5.891e+02 8.093e+02 -0.728 0.46669   
## Item\_IdentifierFDT52 1.221e+03 1.356e+03 0.900 0.36803   
## Item\_IdentifierFDT55 1.217e+03 6.327e+02 1.923 0.05453 .   
## Item\_IdentifierFDT56 -1.128e+03 1.178e+03 -0.957 0.33841   
## Item\_IdentifierFDT57 1.216e+03 1.257e+03 0.968 0.33321   
## Item\_IdentifierFDT58 -4.377e+01 7.190e+02 -0.061 0.95146   
## Item\_IdentifierFDT59 1.400e+03 1.194e+03 1.172 0.24118   
## Item\_IdentifierFDT60 1.067e+01 7.141e+02 0.015 0.98808   
## Item\_IdentifierFDU01 9.930e+02 8.753e+02 1.134 0.25662   
## Item\_IdentifierFDU02 1.513e+03 1.175e+03 1.287 0.19812   
## Item\_IdentifierFDU03 2.442e+02 9.267e+02 0.263 0.79217   
## Item\_IdentifierFDU04 -1.990e+02 7.208e+02 -0.276 0.78252   
## Item\_IdentifierFDU07 1.034e+02 6.598e+02 0.157 0.87547   
## Item\_IdentifierFDU08 -9.514e+02 8.699e+02 -1.094 0.27415   
## Item\_IdentifierFDU09 -7.824e+02 1.349e+03 -0.580 0.56204   
## Item\_IdentifierFDU10 -1.399e+03 1.384e+03 -1.011 0.31223   
## Item\_IdentifierFDU11 -4.196e+02 6.978e+02 -0.601 0.54764   
## Item\_IdentifierFDU12 1.419e+03 1.497e+03 0.947 0.34347   
## Item\_IdentifierFDU13 4.700e+02 6.228e+02 0.755 0.45047   
## Item\_IdentifierFDU14 1.989e+03 1.388e+03 1.433 0.15193   
## Item\_IdentifierFDU15 -1.238e+03 1.356e+03 -0.913 0.36104   
## Item\_IdentifierFDU16 -8.118e+02 1.039e+03 -0.782 0.43453   
## Item\_IdentifierFDU19 4.559e+01 7.010e+02 0.065 0.94815   
## Item\_IdentifierFDU20 -4.714e-01 6.722e+02 -0.001 0.99944   
## Item\_IdentifierFDU21 -1.658e+03 1.371e+03 -1.209 0.22658   
## Item\_IdentifierFDU22 5.557e+02 7.306e+02 0.761 0.44694   
## Item\_IdentifierFDU23 7.306e+02 6.623e+02 1.103 0.26998   
## Item\_IdentifierFDU24 -2.551e+02 8.521e+02 -0.299 0.76466   
## Item\_IdentifierFDU25 -1.183e+03 1.142e+03 -1.036 0.30041   
## Item\_IdentifierFDU26 -8.257e+02 6.775e+02 -1.219 0.22301   
## Item\_IdentifierFDU27 -1.098e+03 1.271e+03 -0.864 0.38735   
## Item\_IdentifierFDU28 -1.192e+01 8.646e+02 -0.014 0.98900   
## Item\_IdentifierFDU31 7.366e+02 1.128e+03 0.653 0.51371   
## Item\_IdentifierFDU32 -9.196e+01 6.931e+02 -0.133 0.89444   
## Item\_IdentifierFDU33 -9.942e+02 1.266e+03 -0.785 0.43234   
## Item\_IdentifierFDU34 -7.079e+01 6.590e+02 -0.107 0.91445   
## Item\_IdentifierFDU35 -1.469e+02 8.768e+02 -0.168 0.86698   
## Item\_IdentifierFDU36 -4.190e+02 7.930e+02 -0.528 0.59732   
## Item\_IdentifierFDU37 -3.103e+02 9.854e+02 -0.315 0.75282   
## Item\_IdentifierFDU38 1.429e+03 8.473e+02 1.687 0.09164 .   
## Item\_IdentifierFDU39 -1.386e+03 1.147e+03 -1.209 0.22689   
## Item\_IdentifierFDU40 3.826e+02 8.750e+02 0.437 0.66191   
## Item\_IdentifierFDU43 -4.623e+01 1.425e+03 -0.032 0.97412   
## Item\_IdentifierFDU44 6.311e+02 6.936e+02 0.910 0.36289   
## Item\_IdentifierFDU45 -5.664e+01 7.986e+02 -0.071 0.94346   
## Item\_IdentifierFDU46 -6.336e+02 8.860e+02 -0.715 0.47452   
## Item\_IdentifierFDU47 -3.284e+02 8.010e+02 -0.410 0.68186   
## Item\_IdentifierFDU48 -8.856e+02 8.075e+02 -1.097 0.27281   
## Item\_IdentifierFDU49 -1.561e+02 9.671e+02 -0.161 0.87181   
## Item\_IdentifierFDU50 -6.519e+02 7.517e+02 -0.867 0.38586   
## Item\_IdentifierFDU51 1.890e+03 7.661e+02 2.467 0.01365 \*   
## Item\_IdentifierFDU52 -2.084e+02 7.476e+02 -0.279 0.78046   
## Item\_IdentifierFDU55 3.437e+03 1.526e+03 2.252 0.02434 \*   
## Item\_IdentifierFDU56 1.277e+03 9.316e+02 1.370 0.17060   
## Item\_IdentifierFDU57 2.118e+02 6.910e+02 0.307 0.75921   
## Item\_IdentifierFDU58 4.437e+02 8.583e+02 0.517 0.60516   
## Item\_IdentifierFDU59 7.439e+02 7.677e+02 0.969 0.33255   
## Item\_IdentifierFDU60 1.625e+03 8.567e+02 1.897 0.05784 .   
## Item\_IdentifierFDV01 7.515e+02 6.451e+02 1.165 0.24405   
## Item\_IdentifierFDV02 2.696e+02 7.605e+02 0.355 0.72296   
## Item\_IdentifierFDV03 6.187e+02 7.005e+02 0.883 0.37715   
## Item\_IdentifierFDV04 -6.373e+02 6.592e+02 -0.967 0.33365   
## Item\_IdentifierFDV07 -4.689e+02 7.688e+02 -0.610 0.54198   
## Item\_IdentifierFDV08 -1.888e+03 1.351e+03 -1.398 0.16218   
## Item\_IdentifierFDV09 2.047e+02 6.142e+02 0.333 0.73891   
## Item\_IdentifierFDV10 -1.125e+03 1.319e+03 -0.853 0.39342   
## Item\_IdentifierFDV11 -1.941e+01 8.162e+02 -0.024 0.98103   
## Item\_IdentifierFDV12 1.208e+02 8.756e+02 0.138 0.89028   
## Item\_IdentifierFDV13 -6.339e+02 9.505e+02 -0.667 0.50488   
## Item\_IdentifierFDV14 -1.266e+03 9.997e+02 -1.267 0.20538   
## Item\_IdentifierFDV15 1.621e+01 7.878e+02 0.021 0.98358   
## Item\_IdentifierFDV16 -1.397e+03 1.368e+03 -1.021 0.30711   
## Item\_IdentifierFDV19 7.389e+02 6.640e+02 1.113 0.26579   
## Item\_IdentifierFDV20 8.235e+01 6.336e+02 0.130 0.89658   
## Item\_IdentifierFDV21 7.896e+01 7.622e+02 0.104 0.91750   
## Item\_IdentifierFDV22 6.799e+02 6.745e+02 1.008 0.31349   
## Item\_IdentifierFDV23 4.149e+01 7.122e+02 0.058 0.95355   
## Item\_IdentifierFDV24 -1.111e+02 7.359e+02 -0.151 0.88000   
## Item\_IdentifierFDV25 2.645e+03 1.133e+03 2.335 0.01958 \*   
## Item\_IdentifierFDV26 1.480e+03 8.574e+02 1.726 0.08439 .   
## Item\_IdentifierFDV27 -7.064e+02 9.968e+02 -0.709 0.47857   
## Item\_IdentifierFDV28 -1.526e+03 1.377e+03 -1.108 0.26778   
## Item\_IdentifierFDV31 1.557e+01 8.884e+02 0.018 0.98601   
## Item\_IdentifierFDV32 -6.972e+02 1.104e+03 -0.632 0.52772   
## Item\_IdentifierFDV33 1.083e+03 1.506e+03 0.719 0.47186   
## Item\_IdentifierFDV34 -9.122e+02 1.030e+03 -0.886 0.37571   
## Item\_IdentifierFDV35 1.010e+03 7.509e+02 1.346 0.17849   
## Item\_IdentifierFDV36 3.774e+02 7.510e+02 0.503 0.61527   
## Item\_IdentifierFDV37 2.992e+02 9.019e+02 0.332 0.74012   
## Item\_IdentifierFDV38 -1.094e+03 1.155e+03 -0.948 0.34336   
## Item\_IdentifierFDV39 8.390e+02 8.885e+02 0.944 0.34510   
## Item\_IdentifierFDV40 -1.364e+03 1.033e+03 -1.320 0.18671   
## Item\_IdentifierFDV43 -1.990e+03 1.359e+03 -1.464 0.14324   
## Item\_IdentifierFDV44 1.635e+02 8.547e+02 0.191 0.84828   
## Item\_IdentifierFDV45 1.493e+03 8.147e+02 1.833 0.06684 .   
## Item\_IdentifierFDV46 1.248e+02 6.538e+02 0.191 0.84865   
## Item\_IdentifierFDV47 -6.203e+02 9.187e+02 -0.675 0.49956   
## Item\_IdentifierFDV48 -7.615e+02 9.686e+02 -0.786 0.43179   
## Item\_IdentifierFDV49 2.193e+03 1.526e+03 1.437 0.15069   
## Item\_IdentifierFDV50 -3.053e+02 7.210e+02 -0.423 0.67196   
## Item\_IdentifierFDV51 3.190e+01 7.043e+02 0.045 0.96388   
## Item\_IdentifierFDV52 -1.731e+01 7.381e+02 -0.023 0.98129   
## Item\_IdentifierFDV55 9.419e+01 8.000e+02 0.118 0.90627   
## Item\_IdentifierFDV56 -1.676e+03 8.867e+02 -1.890 0.05874 .   
## Item\_IdentifierFDV57 1.683e+03 7.586e+02 2.218 0.02658 \*   
## Item\_IdentifierFDV58 2.880e+02 1.008e+03 0.286 0.77512   
## Item\_IdentifierFDV59 1.816e+03 1.103e+03 1.647 0.09955 .   
## Item\_IdentifierFDV60 8.271e+02 8.565e+02 0.966 0.33428   
## Item\_IdentifierFDW01 -6.825e+02 7.416e+02 -0.920 0.35744   
## Item\_IdentifierFDW02 5.497e+02 6.778e+02 0.811 0.41746   
## Item\_IdentifierFDW03 -1.992e+02 8.411e+02 -0.237 0.81277   
## Item\_IdentifierFDW04 1.860e+02 8.090e+02 0.230 0.81813   
## Item\_IdentifierFDW07 -8.722e+02 8.756e+02 -0.996 0.31919   
## Item\_IdentifierFDW08 -1.009e+03 8.371e+02 -1.205 0.22831   
## Item\_IdentifierFDW09 -1.172e+03 9.380e+02 -1.250 0.21141   
## Item\_IdentifierFDW10 1.779e+03 9.968e+02 1.784 0.07442 .   
## Item\_IdentifierFDW11 -1.502e+03 1.140e+03 -1.318 0.18755   
## Item\_IdentifierFDW12 -1.503e+02 6.291e+02 -0.239 0.81124   
## Item\_IdentifierFDW13 -9.730e+02 1.180e+03 -0.825 0.40954   
## Item\_IdentifierFDW14 -6.793e+02 1.007e+03 -0.674 0.50016   
## Item\_IdentifierFDW15 1.187e+02 8.013e+02 0.148 0.88227   
## Item\_IdentifierFDW16 -3.147e+02 9.158e+02 -0.344 0.73118   
## Item\_IdentifierFDW19 -2.575e+02 7.224e+02 -0.357 0.72147   
## Item\_IdentifierFDW20 -1.172e+02 7.591e+02 -0.154 0.87728   
## Item\_IdentifierFDW21 -8.210e+02 8.284e+02 -0.991 0.32167   
## Item\_IdentifierFDW22 2.117e+03 1.208e+03 1.752 0.07982 .   
## Item\_IdentifierFDW23 -1.329e+03 1.347e+03 -0.986 0.32399   
## Item\_IdentifierFDW24 -1.244e+03 1.210e+03 -1.028 0.30389   
## Item\_IdentifierFDW25 -1.364e+03 9.393e+02 -1.453 0.14634   
## Item\_IdentifierFDW26 5.812e+02 1.089e+03 0.534 0.59355   
## Item\_IdentifierFDW27 -2.987e+01 6.765e+02 -0.044 0.96478   
## Item\_IdentifierFDW28 8.054e+02 8.798e+02 0.915 0.36000   
## Item\_IdentifierFDW31 3.620e+01 9.405e+02 0.038 0.96930   
## Item\_IdentifierFDW32 -5.850e+02 8.921e+02 -0.656 0.51201   
## Item\_IdentifierFDW33 -6.039e+02 8.357e+02 -0.723 0.46993   
## Item\_IdentifierFDW34 1.684e+03 1.312e+03 1.283 0.19944   
## Item\_IdentifierFDW35 -1.372e+03 1.302e+03 -1.054 0.29193   
## Item\_IdentifierFDW36 -8.366e+02 8.290e+02 -1.009 0.31296   
## Item\_IdentifierFDW37 -1.059e+03 9.935e+02 -1.066 0.28654   
## Item\_IdentifierFDW38 -1.142e+03 1.172e+03 -0.974 0.33003   
## Item\_IdentifierFDW39 2.091e+02 7.598e+02 0.275 0.78313   
## Item\_IdentifierFDW40 7.434e+02 7.310e+02 1.017 0.30921   
## Item\_IdentifierFDW43 1.464e+03 1.203e+03 1.217 0.22354   
## Item\_IdentifierFDW44 3.506e+01 7.270e+02 0.048 0.96154   
## Item\_IdentifierFDW45 2.668e+02 6.556e+02 0.407 0.68401   
## Item\_IdentifierFDW46 -8.270e+02 1.089e+03 -0.760 0.44745   
## Item\_IdentifierFDW47 -9.123e+01 6.898e+02 -0.132 0.89478   
## Item\_IdentifierFDW48 -1.293e+03 9.260e+02 -1.397 0.16251   
## Item\_IdentifierFDW49 3.931e+02 7.317e+02 0.537 0.59112   
## Item\_IdentifierFDW50 -3.143e+02 6.908e+02 -0.455 0.64913   
## Item\_IdentifierFDW51 1.129e+03 1.043e+03 1.082 0.27912   
## Item\_IdentifierFDW52 1.107e+03 7.709e+02 1.435 0.15123   
## Item\_IdentifierFDW55 1.944e+03 1.392e+03 1.396 0.16266   
## Item\_IdentifierFDW56 2.446e+03 8.629e+02 2.834 0.00461 \*\*  
## Item\_IdentifierFDW57 1.312e+03 7.939e+02 1.653 0.09839 .   
## Item\_IdentifierFDW58 -5.643e+02 1.011e+03 -0.558 0.57678   
## Item\_IdentifierFDW59 -7.596e+02 9.162e+02 -0.829 0.40709   
## Item\_IdentifierFDW60 4.988e+02 8.906e+02 0.560 0.57542   
## Item\_IdentifierFDX01 -6.689e+02 7.130e+02 -0.938 0.34820   
## Item\_IdentifierFDX02 2.020e+03 1.190e+03 1.697 0.08966 .   
## Item\_IdentifierFDX03 -1.280e+03 1.268e+03 -1.009 0.31294   
## Item\_IdentifierFDX04 -1.489e+03 1.217e+03 -1.223 0.22123   
## Item\_IdentifierFDX07 9.474e+02 8.013e+02 1.182 0.23714   
## Item\_IdentifierFDX08 2.212e+02 8.089e+02 0.273 0.78453   
## Item\_IdentifierFDX09 1.083e+03 7.590e+02 1.427 0.15376   
## Item\_IdentifierFDX10 -2.197e+03 1.409e+03 -1.560 0.11892   
## Item\_IdentifierFDX11 1.002e+03 7.944e+02 1.261 0.20738   
## Item\_IdentifierFDX12 1.829e+03 1.337e+03 1.368 0.17136   
## Item\_IdentifierFDX13 2.258e+03 1.393e+03 1.620 0.10519   
## Item\_IdentifierFDX14 -8.297e+02 1.053e+03 -0.788 0.43086   
## Item\_IdentifierFDX15 -8.673e+01 6.928e+02 -0.125 0.90038   
## Item\_IdentifierFDX16 2.769e+02 6.586e+02 0.420 0.67419   
## Item\_IdentifierFDX19 1.329e+03 1.217e+03 1.092 0.27498   
## Item\_IdentifierFDX20 1.066e+03 1.131e+03 0.943 0.34585   
## Item\_IdentifierFDX21 -5.948e+02 7.130e+02 -0.834 0.40417   
## Item\_IdentifierFDX22 1.393e+03 1.061e+03 1.313 0.18928   
## Item\_IdentifierFDX23 -9.867e+02 8.425e+02 -1.171 0.24157   
## Item\_IdentifierFDX24 -7.135e+02 8.746e+02 -0.816 0.41463   
## Item\_IdentifierFDX25 5.682e+02 8.199e+02 0.693 0.48831   
## Item\_IdentifierFDX26 6.946e+02 7.758e+02 0.895 0.37059   
## Item\_IdentifierFDX27 -4.984e+02 8.811e+02 -0.566 0.57162   
## Item\_IdentifierFDX28 -3.613e+02 9.282e+02 -0.389 0.69714   
## Item\_IdentifierFDX31 1.380e+03 1.199e+03 1.151 0.24961   
## Item\_IdentifierFDX32 2.257e+02 6.300e+02 0.358 0.72023   
## Item\_IdentifierFDX33 3.400e+02 6.842e+02 0.497 0.61923   
## Item\_IdentifierFDX34 2.835e+02 6.946e+02 0.408 0.68318   
## Item\_IdentifierFDX35 1.413e+03 1.190e+03 1.188 0.23503   
## Item\_IdentifierFDX36 1.783e+03 1.133e+03 1.574 0.11548   
## Item\_IdentifierFDX37 -9.476e+01 8.046e+02 -0.118 0.90626   
## Item\_IdentifierFDX38 -9.471e+02 1.264e+03 -0.750 0.45357   
## Item\_IdentifierFDX39 1.741e+03 1.039e+03 1.676 0.09373 .   
## Item\_IdentifierFDX40 -1.091e+03 1.323e+03 -0.824 0.40983   
## Item\_IdentifierFDX43 -1.668e+02 7.090e+02 -0.235 0.81401   
## Item\_IdentifierFDX44 -1.014e+03 8.805e+02 -1.152 0.24940   
## Item\_IdentifierFDX45 3.282e+02 6.322e+02 0.519 0.60367   
## Item\_IdentifierFDX46 -1.268e+03 1.146e+03 -1.106 0.26855   
## Item\_IdentifierFDX47 2.367e+02 6.518e+02 0.363 0.71655   
## Item\_IdentifierFDX48 2.591e+02 7.428e+02 0.349 0.72730   
## Item\_IdentifierFDX49 1.829e+03 1.233e+03 1.483 0.13807   
## Item\_IdentifierFDX50 -6.362e+02 7.116e+02 -0.894 0.37133   
## Item\_IdentifierFDX51 6.513e+02 9.140e+02 0.713 0.47610   
## Item\_IdentifierFDX52 8.337e+02 9.015e+02 0.925 0.35509   
## Item\_IdentifierFDX55 1.256e+03 1.092e+03 1.150 0.25026   
## Item\_IdentifierFDX56 2.191e+03 9.875e+02 2.219 0.02650 \*   
## Item\_IdentifierFDX57 -3.741e+02 8.286e+02 -0.451 0.65169   
## Item\_IdentifierFDX58 1.323e+03 7.657e+02 1.727 0.08415 .   
## Item\_IdentifierFDX59 -1.799e+03 1.401e+03 -1.284 0.19918   
## Item\_IdentifierFDX60 -9.014e+02 9.580e+02 -0.941 0.34679   
## Item\_IdentifierFDY01 -2.172e+02 7.925e+02 -0.274 0.78403   
## Item\_IdentifierFDY02 1.448e+03 1.507e+03 0.961 0.33644   
## Item\_IdentifierFDY03 -3.745e+02 7.007e+02 -0.534 0.59302   
## Item\_IdentifierFDY04 -1.365e+01 6.948e+02 -0.020 0.98433   
## Item\_IdentifierFDY07 -1.326e+03 1.251e+03 -1.059 0.28951   
## Item\_IdentifierFDY08 -1.851e+02 7.388e+02 -0.251 0.80220   
## Item\_IdentifierFDY09 -2.522e+02 8.791e+02 -0.287 0.77417   
## Item\_IdentifierFDY10 -2.674e+02 7.245e+02 -0.369 0.71204   
## Item\_IdentifierFDY11 -1.183e+03 1.096e+03 -1.079 0.28078   
## Item\_IdentifierFDY12 -1.225e+03 1.246e+03 -0.983 0.32574   
## Item\_IdentifierFDY13 -6.378e+02 9.742e+02 -0.655 0.51266   
## Item\_IdentifierFDY14 2.837e+03 1.557e+03 1.822 0.06844 .   
## Item\_IdentifierFDY15 1.535e+02 6.580e+02 0.233 0.81561   
## Item\_IdentifierFDY16 1.317e+03 8.364e+02 1.574 0.11545   
## Item\_IdentifierFDY19 3.532e+02 7.819e+02 0.452 0.65149   
## Item\_IdentifierFDY20 -8.783e+02 8.917e+02 -0.985 0.32466   
## Item\_IdentifierFDY21 1.430e+03 8.948e+02 1.598 0.11009   
## Item\_IdentifierFDY22 -2.902e-02 7.359e+02 0.000 0.99997   
## Item\_IdentifierFDY24 -9.048e+02 1.215e+03 -0.744 0.45663   
## Item\_IdentifierFDY25 2.554e+03 8.121e+02 3.144 0.00167 \*\*  
## Item\_IdentifierFDY26 2.184e+03 1.049e+03 2.083 0.03730 \*   
## Item\_IdentifierFDY27 -1.751e+02 7.999e+02 -0.219 0.82676   
## Item\_IdentifierFDY28 1.600e+03 1.045e+03 1.531 0.12570   
## Item\_IdentifierFDY31 1.647e+02 6.316e+02 0.261 0.79433   
## Item\_IdentifierFDY32 8.712e+02 8.421e+02 1.035 0.30092   
## Item\_IdentifierFDY33 1.180e+03 6.593e+02 1.789 0.07362 .   
## Item\_IdentifierFDY34 7.900e+02 7.361e+02 1.073 0.28322   
## Item\_IdentifierFDY35 -1.003e+03 1.255e+03 -0.799 0.42427   
## Item\_IdentifierFDY36 -1.045e+03 1.009e+03 -1.036 0.30035   
## Item\_IdentifierFDY37 4.352e+02 6.844e+02 0.636 0.52492   
## Item\_IdentifierFDY38 1.659e+03 1.228e+03 1.351 0.17675   
## Item\_IdentifierFDY39 1.673e+03 8.275e+02 2.022 0.04326 \*   
## Item\_IdentifierFDY40 -1.012e+03 1.232e+03 -0.821 0.41146   
## Item\_IdentifierFDY43 -1.178e+03 1.260e+03 -0.935 0.34987   
## Item\_IdentifierFDY44 7.565e+02 9.203e+02 0.822 0.41113   
## Item\_IdentifierFDY45 1.300e+03 1.426e+03 0.912 0.36178   
## Item\_IdentifierFDY46 1.217e+03 9.507e+02 1.280 0.20073   
## Item\_IdentifierFDY47 -3.644e+02 6.242e+02 -0.584 0.55941   
## Item\_IdentifierFDY48 -3.816e+02 7.811e+02 -0.489 0.62519   
## Item\_IdentifierFDY49 -4.819e+00 6.634e+02 -0.007 0.99420   
## Item\_IdentifierFDY50 -4.626e+02 8.860e+02 -0.522 0.60161   
## Item\_IdentifierFDY51 1.966e+03 1.123e+03 1.750 0.08014 .   
## Item\_IdentifierFDY52 -1.140e+03 1.124e+03 -1.014 0.31060   
## Item\_IdentifierFDY55 3.228e+03 1.440e+03 2.242 0.02498 \*   
## Item\_IdentifierFDY56 1.892e+03 1.128e+03 1.678 0.09343 .   
## Item\_IdentifierFDY57 -5.117e+02 8.208e+02 -0.623 0.53305   
## Item\_IdentifierFDY58 1.947e+03 1.257e+03 1.549 0.12147   
## Item\_IdentifierFDY59 -1.250e+03 8.358e+02 -1.495 0.13484   
## Item\_IdentifierFDY60 2.911e+02 6.840e+02 0.426 0.67040   
## Item\_IdentifierFDZ01 -4.211e+02 8.125e+02 -0.518 0.60426   
## Item\_IdentifierFDZ02 -1.482e+03 8.799e+02 -1.684 0.09227 .   
## Item\_IdentifierFDZ03 1.080e+03 8.484e+02 1.273 0.20310   
## Item\_IdentifierFDZ04 -1.054e+03 1.108e+03 -0.951 0.34143   
## Item\_IdentifierFDZ07 -8.397e+02 1.132e+03 -0.742 0.45809   
## Item\_IdentifierFDZ08 -1.113e+03 9.212e+02 -1.208 0.22693   
## Item\_IdentifierFDZ09 8.134e+02 7.018e+02 1.159 0.24647   
## Item\_IdentifierFDZ10 5.337e+01 6.746e+02 0.079 0.93694   
## Item\_IdentifierFDZ12 9.508e+02 6.533e+02 1.455 0.14562   
## Item\_IdentifierFDZ13 -1.343e+03 1.266e+03 -1.061 0.28891   
## Item\_IdentifierFDZ14 -1.460e+02 8.300e+02 -0.176 0.86032   
## Item\_IdentifierFDZ15 -2.157e+02 6.826e+02 -0.316 0.75199   
## Item\_IdentifierFDZ16 1.781e+03 8.837e+02 2.016 0.04384 \*   
## Item\_IdentifierFDZ19 3.719e+02 8.887e+02 0.418 0.67560   
## Item\_IdentifierFDZ20 2.857e+03 1.408e+03 2.029 0.04249 \*   
## Item\_IdentifierFDZ21 -8.376e+02 7.980e+02 -1.050 0.29398   
## Item\_IdentifierFDZ22 -8.890e+02 9.477e+02 -0.938 0.34823   
## Item\_IdentifierFDZ23 7.791e+02 8.058e+02 0.967 0.33362   
## Item\_IdentifierFDZ25 8.040e+02 7.235e+02 1.111 0.26646   
## Item\_IdentifierFDZ26 1.659e+03 1.261e+03 1.316 0.18821   
## Item\_IdentifierFDZ27 -1.359e+03 1.233e+03 -1.102 0.27037   
## Item\_IdentifierFDZ28 -1.318e+02 7.080e+02 -0.186 0.85227   
## Item\_IdentifierFDZ31 8.034e+02 8.827e+02 0.910 0.36278   
## Item\_IdentifierFDZ32 -7.062e+02 8.383e+02 -0.842 0.39958   
## Item\_IdentifierFDZ33 -6.418e+01 6.148e+02 -0.104 0.91686   
## Item\_IdentifierFDZ34 2.584e+03 9.843e+02 2.625 0.00868 \*\*  
## Item\_IdentifierFDZ35 -1.331e+02 7.676e+02 -0.173 0.86235   
## Item\_IdentifierFDZ36 1.356e+03 8.527e+02 1.590 0.11194   
## Item\_IdentifierFDZ37 -1.416e+03 1.005e+03 -1.409 0.15877   
## Item\_IdentifierFDZ38 1.700e+03 7.399e+02 2.298 0.02161 \*   
## Item\_IdentifierFDZ39 -1.066e+03 7.879e+02 -1.353 0.17602   
## Item\_IdentifierFDZ40 -1.562e+03 1.206e+03 -1.295 0.19529   
## Item\_IdentifierFDZ43 2.298e+03 1.319e+03 1.743 0.08146 .   
## Item\_IdentifierFDZ44 -7.048e+02 7.125e+02 -0.989 0.32260   
## Item\_IdentifierFDZ45 1.192e+03 9.120e+02 1.307 0.19112   
## Item\_IdentifierFDZ46 -6.350e+02 8.112e+02 -0.783 0.43376   
## Item\_IdentifierFDZ47 -6.406e+02 8.400e+02 -0.763 0.44570   
## Item\_IdentifierFDZ48 -4.324e+02 7.342e+02 -0.589 0.55593   
## Item\_IdentifierFDZ49 8.224e+02 1.101e+03 0.747 0.45500   
## Item\_IdentifierFDZ50 2.573e+03 1.032e+03 2.492 0.01272 \*   
## Item\_IdentifierFDZ51 -6.964e+02 8.579e+02 -0.812 0.41693   
## Item\_IdentifierFDZ52 -4.613e+02 7.183e+02 -0.642 0.52075   
## Item\_IdentifierFDZ55 1.088e+03 6.840e+02 1.590 0.11181   
## Item\_IdentifierFDZ56 6.644e+02 7.157e+02 0.928 0.35327   
## Item\_IdentifierFDZ57 -1.103e+03 7.008e+02 -1.573 0.11565   
## Item\_IdentifierFDZ58 -3.269e+01 6.680e+02 -0.049 0.96098   
## Item\_IdentifierFDZ59 1.002e+03 7.101e+02 1.411 0.15820   
## Item\_IdentifierFDZ60 -1.225e+03 7.897e+02 -1.551 0.12093   
## Item\_IdentifierNCA05 -5.279e+02 6.596e+02 -0.800 0.42354   
## Item\_IdentifierNCA06 -1.699e+03 1.356e+03 -1.253 0.21011   
## Item\_IdentifierNCA17 5.767e+02 6.917e+02 0.834 0.40442   
## Item\_IdentifierNCA18 -6.308e+02 7.844e+02 -0.804 0.42132   
## Item\_IdentifierNCA29 7.687e+02 7.587e+02 1.013 0.31103   
## Item\_IdentifierNCA30 5.649e+02 8.752e+02 0.645 0.51867   
## Item\_IdentifierNCA41 1.075e+03 8.866e+02 1.212 0.22542   
## Item\_IdentifierNCA42 7.117e+02 7.104e+02 1.002 0.31645   
## Item\_IdentifierNCA53 -1.121e+03 1.242e+03 -0.903 0.36663   
## Item\_IdentifierNCA54 5.293e+02 8.449e+02 0.626 0.53106   
## Item\_IdentifierNCB06 4.908e+02 7.189e+02 0.683 0.49484   
## Item\_IdentifierNCB07 1.200e+03 1.014e+03 1.183 0.23669   
## Item\_IdentifierNCB18 -2.230e+02 8.459e+02 -0.264 0.79212   
## Item\_IdentifierNCB19 -6.935e+02 9.118e+02 -0.761 0.44690   
## Item\_IdentifierNCB30 8.160e+02 8.925e+02 0.914 0.36060   
## Item\_IdentifierNCB31 8.242e+02 1.501e+03 0.549 0.58291   
## Item\_IdentifierNCB42 -5.303e+02 7.122e+02 -0.745 0.45653   
## Item\_IdentifierNCB43 1.533e+03 8.359e+02 1.834 0.06674 .   
## Item\_IdentifierNCB54 -3.403e+02 7.475e+02 -0.455 0.64898   
## Item\_IdentifierNCB55 -1.345e+03 1.197e+03 -1.124 0.26111   
## Item\_IdentifierNCC06 1.073e+03 7.479e+02 1.435 0.15132   
## Item\_IdentifierNCC07 -9.456e+02 7.776e+02 -1.216 0.22400   
## Item\_IdentifierNCC18 2.297e+02 7.136e+02 0.322 0.74754   
## Item\_IdentifierNCC19 1.488e+03 9.291e+02 1.602 0.10923   
## Item\_IdentifierNCC30 1.021e+01 7.928e+02 0.013 0.98972   
## Item\_IdentifierNCC31 1.250e+02 7.468e+02 0.167 0.86707   
## Item\_IdentifierNCC42 -2.109e+02 7.292e+02 -0.289 0.77242   
## Item\_IdentifierNCC43 4.966e+02 1.413e+03 0.351 0.72531   
## Item\_IdentifierNCC54 2.052e+03 1.294e+03 1.585 0.11293   
## Item\_IdentifierNCC55 -1.503e+03 1.507e+03 -0.997 0.31858   
## Item\_IdentifierNCD06 -1.437e+03 1.285e+03 -1.118 0.26380   
## Item\_IdentifierNCD07 -9.741e+02 7.924e+02 -1.229 0.21902   
## Item\_IdentifierNCD18 2.087e+03 1.186e+03 1.760 0.07850 .   
## Item\_IdentifierNCD19 -1.226e+03 1.178e+03 -1.041 0.29801   
## Item\_IdentifierNCD30 -1.255e+03 9.427e+02 -1.331 0.18321   
## Item\_IdentifierNCD31 3.865e+02 7.335e+02 0.527 0.59825   
## Item\_IdentifierNCD42 -1.695e+03 1.356e+03 -1.250 0.21149   
## Item\_IdentifierNCD43 -7.338e+02 8.362e+02 -0.877 0.38025   
## Item\_IdentifierNCD54 9.353e+01 6.311e+02 0.148 0.88219   
## Item\_IdentifierNCD55 -1.650e+03 1.345e+03 -1.226 0.22010   
## Item\_IdentifierNCE06 -4.171e+02 7.192e+02 -0.580 0.56199   
## Item\_IdentifierNCE07 -4.759e+02 6.286e+02 -0.757 0.44903   
## Item\_IdentifierNCE18 2.165e+03 1.393e+03 1.554 0.12034   
## Item\_IdentifierNCE19 -1.082e+03 1.175e+03 -0.921 0.35698   
## Item\_IdentifierNCE30 2.600e+02 1.027e+03 0.253 0.80024   
## Item\_IdentifierNCE31 -1.557e+03 1.366e+03 -1.140 0.25452   
## Item\_IdentifierNCE42 2.362e+03 1.251e+03 1.889 0.05893 .   
## Item\_IdentifierNCE43 8.079e+02 7.579e+02 1.066 0.28647   
## Item\_IdentifierNCE54 -6.229e+02 9.737e+02 -0.640 0.52238   
## Item\_IdentifierNCE55 1.429e+03 8.927e+02 1.601 0.10950   
## Item\_IdentifierNCF06 6.333e+02 1.551e+03 0.408 0.68297   
## Item\_IdentifierNCF07 -7.948e+02 7.974e+02 -0.997 0.31888   
## Item\_IdentifierNCF18 1.669e+03 8.885e+02 1.878 0.06038 .   
## Item\_IdentifierNCF19 -1.410e+03 1.260e+03 -1.119 0.26318   
## Item\_IdentifierNCF30 -4.853e+01 6.836e+02 -0.071 0.94340   
## Item\_IdentifierNCF31 -3.304e+02 6.613e+02 -0.500 0.61736   
## Item\_IdentifierNCF42 1.429e+02 7.207e+02 0.198 0.84279   
## Item\_IdentifierNCF43 7.588e+01 6.838e+02 0.111 0.91164   
## Item\_IdentifierNCF54 6.396e+02 8.016e+02 0.798 0.42490   
## Item\_IdentifierNCF55 -1.360e+03 1.451e+03 -0.937 0.34865   
## Item\_IdentifierNCG06 7.968e+02 1.490e+03 0.535 0.59279   
## Item\_IdentifierNCG07 7.040e+02 8.331e+02 0.845 0.39810   
## Item\_IdentifierNCG18 -2.047e+02 8.142e+02 -0.251 0.80151   
## Item\_IdentifierNCG19 1.814e+02 1.392e+03 0.130 0.89630   
## Item\_IdentifierNCG30 -1.951e+02 6.866e+02 -0.284 0.77628   
## Item\_IdentifierNCG42 -2.868e+02 6.994e+02 -0.410 0.68183   
## Item\_IdentifierNCG43 -6.179e+02 8.359e+02 -0.739 0.45984   
## Item\_IdentifierNCG54 1.336e+03 8.024e+02 1.665 0.09599 .   
## Item\_IdentifierNCG55 2.096e+02 8.517e+02 0.246 0.80562   
## Item\_IdentifierNCH06 3.421e+02 1.375e+03 0.249 0.80345   
## Item\_IdentifierNCH07 4.896e+02 6.579e+02 0.744 0.45681   
## Item\_IdentifierNCH18 1.327e+03 1.345e+03 0.986 0.32405   
## Item\_IdentifierNCH29 -3.570e+02 8.452e+02 -0.422 0.67276   
## Item\_IdentifierNCH30 -3.903e+02 7.022e+02 -0.556 0.57835   
## Item\_IdentifierNCH42 1.986e+03 1.206e+03 1.646 0.09971 .   
## Item\_IdentifierNCH43 -2.363e+02 1.063e+03 -0.222 0.82408   
## Item\_IdentifierNCH54 1.585e+02 6.833e+02 0.232 0.81662   
## Item\_IdentifierNCH55 -2.875e+02 6.516e+02 -0.441 0.65913   
## Item\_IdentifierNCI06 1.336e+03 8.087e+02 1.652 0.09855 .   
## Item\_IdentifierNCI17 -6.597e+02 8.400e+02 -0.785 0.43224   
## Item\_IdentifierNCI18 2.861e+02 1.133e+03 0.252 0.80069   
## Item\_IdentifierNCI29 -5.322e+02 6.098e+02 -0.873 0.38285   
## Item\_IdentifierNCI30 6.497e+02 1.345e+03 0.483 0.62903   
## Item\_IdentifierNCI31 -1.196e+03 1.346e+03 -0.888 0.37436   
## Item\_IdentifierNCI42 2.473e+02 9.938e+02 0.249 0.80352   
## Item\_IdentifierNCI43 -1.536e+03 1.245e+03 -1.233 0.21752   
## Item\_IdentifierNCI54 -4.100e+02 6.993e+02 -0.586 0.55771   
## Item\_IdentifierNCI55 3.224e+02 7.219e+02 0.447 0.65515   
## Item\_IdentifierNCJ05 -4.769e+01 6.642e+02 -0.072 0.94277   
## Item\_IdentifierNCJ06 -3.617e+02 7.728e+02 -0.468 0.63978   
## Item\_IdentifierNCJ17 -7.006e+02 9.425e+02 -0.743 0.45732   
## Item\_IdentifierNCJ18 3.560e+01 6.914e+02 0.051 0.95894   
## Item\_IdentifierNCJ19 -6.630e+02 1.184e+03 -0.560 0.57538   
## Item\_IdentifierNCJ29 -1.178e+03 9.119e+02 -1.291 0.19660   
## Item\_IdentifierNCJ30 2.191e+02 6.744e+02 0.325 0.74526   
## Item\_IdentifierNCJ31 1.240e+03 1.321e+03 0.939 0.34794   
## Item\_IdentifierNCJ42 -3.660e+02 7.920e+02 -0.462 0.64401   
## Item\_IdentifierNCJ43 -5.540e+01 8.153e+02 -0.068 0.94582   
## Item\_IdentifierNCJ54 2.337e+03 1.228e+03 1.903 0.05712 .   
## Item\_IdentifierNCK05 -1.061e+03 1.102e+03 -0.963 0.33568   
## Item\_IdentifierNCK06 -8.023e+02 7.209e+02 -1.113 0.26576   
## Item\_IdentifierNCK07 4.517e+02 7.031e+02 0.642 0.52063   
## Item\_IdentifierNCK17 -1.456e+03 1.321e+03 -1.102 0.27039   
## Item\_IdentifierNCK18 6.886e+02 6.806e+02 1.012 0.31169   
## Item\_IdentifierNCK19 7.435e+02 8.758e+02 0.849 0.39598   
## Item\_IdentifierNCK29 1.170e+01 6.481e+02 0.018 0.98560   
## Item\_IdentifierNCK30 1.390e+03 1.440e+03 0.966 0.33418   
## Item\_IdentifierNCK31 -1.817e+03 1.304e+03 -1.393 0.16359   
## Item\_IdentifierNCK42 1.458e+03 1.115e+03 1.308 0.19080   
## Item\_IdentifierNCK53 2.576e+01 7.742e+02 0.033 0.97346   
## Item\_IdentifierNCK54 -5.450e+02 7.124e+02 -0.765 0.44426   
## Item\_IdentifierNCL05 -1.508e+03 1.277e+03 -1.181 0.23761   
## Item\_IdentifierNCL06 1.347e+03 1.574e+03 0.856 0.39201   
## Item\_IdentifierNCL07 -1.594e+03 1.360e+03 -1.172 0.24116   
## Item\_IdentifierNCL17 5.408e+02 7.294e+02 0.741 0.45847   
## Item\_IdentifierNCL18 2.559e+02 8.687e+02 0.295 0.76837   
## Item\_IdentifierNCL19 3.789e+01 6.846e+02 0.055 0.95586   
## Item\_IdentifierNCL29 1.129e+02 6.579e+02 0.172 0.86374   
## Item\_IdentifierNCL30 4.937e+02 7.480e+02 0.660 0.50923   
## Item\_IdentifierNCL31 8.396e+02 5.992e+02 1.401 0.16116   
## Item\_IdentifierNCL41 -1.517e+03 1.372e+03 -1.105 0.26905   
## Item\_IdentifierNCL42 3.710e+03 1.413e+03 2.625 0.00868 \*\*  
## Item\_IdentifierNCL53 9.516e+02 7.220e+02 1.318 0.18756   
## Item\_IdentifierNCL54 7.928e+02 8.846e+02 0.896 0.37014   
## Item\_IdentifierNCL55 1.547e+03 1.441e+03 1.073 0.28316   
## Item\_IdentifierNCM05 2.438e+03 1.523e+03 1.601 0.10951   
## Item\_IdentifierNCM06 1.112e+02 6.473e+02 0.172 0.86365   
## Item\_IdentifierNCM07 -8.579e+02 8.918e+02 -0.962 0.33604   
## Item\_IdentifierNCM17 -1.309e+03 1.293e+03 -1.013 0.31125   
## Item\_IdentifierNCM18 -7.842e+02 1.216e+03 -0.645 0.51908   
## Item\_IdentifierNCM19 2.691e+02 7.979e+02 0.337 0.73590   
## Item\_IdentifierNCM26 5.305e+02 6.995e+02 0.758 0.44826   
## Item\_IdentifierNCM29 -4.654e+01 6.394e+02 -0.073 0.94198   
## Item\_IdentifierNCM30 -1.498e+03 1.299e+03 -1.153 0.24885   
## Item\_IdentifierNCM31 9.046e+01 7.303e+02 0.124 0.90142   
## Item\_IdentifierNCM41 -1.122e+03 9.109e+02 -1.231 0.21826   
## Item\_IdentifierNCM42 -8.191e+02 9.891e+02 -0.828 0.40764   
## Item\_IdentifierNCM43 4.127e+02 6.740e+02 0.612 0.54036   
## Item\_IdentifierNCM53 -5.369e+02 7.981e+02 -0.673 0.50117   
## Item\_IdentifierNCM54 2.682e+02 7.037e+02 0.381 0.70316   
## Item\_IdentifierNCM55 8.072e+02 9.381e+02 0.860 0.38958   
## Item\_IdentifierNCN05 2.919e+02 8.031e+02 0.363 0.71630   
## Item\_IdentifierNCN06 6.505e+02 7.307e+02 0.890 0.37336   
## Item\_IdentifierNCN07 -3.100e+02 6.411e+02 -0.484 0.62874   
## Item\_IdentifierNCN14 1.934e+02 8.107e+02 0.239 0.81144   
## Item\_IdentifierNCN17 -8.547e+02 8.607e+02 -0.993 0.32074   
## Item\_IdentifierNCN18 4.962e+02 7.617e+02 0.651 0.51484   
## Item\_IdentifierNCN19 4.561e+02 8.484e+02 0.538 0.59083   
## Item\_IdentifierNCN26 5.766e+01 7.395e+02 0.078 0.93785   
## Item\_IdentifierNCN29 -1.122e+03 1.255e+03 -0.894 0.37133   
## Item\_IdentifierNCN30 -1.076e+03 8.236e+02 -1.306 0.19144   
## Item\_IdentifierNCN41 -2.031e+02 7.152e+02 -0.284 0.77639   
## Item\_IdentifierNCN42 5.204e+02 6.884e+02 0.756 0.44974   
## Item\_IdentifierNCN43 -2.838e+01 6.853e+02 -0.041 0.96696   
## Item\_IdentifierNCN53 -1.274e+03 1.361e+03 -0.936 0.34940   
## Item\_IdentifierNCN54 -1.349e+03 1.007e+03 -1.339 0.18070   
## Item\_IdentifierNCN55 2.294e+03 1.303e+03 1.761 0.07836 .   
## Item\_IdentifierNCO02 -1.101e+03 1.076e+03 -1.024 0.30582   
## Item\_IdentifierNCO05 -3.645e+02 7.941e+02 -0.459 0.64623   
## Item\_IdentifierNCO06 -1.649e+03 1.383e+03 -1.192 0.23347   
## Item\_IdentifierNCO07 7.021e+02 1.084e+03 0.648 0.51710   
## Item\_IdentifierNCO14 -1.676e+03 1.297e+03 -1.293 0.19615   
## Item\_IdentifierNCO17 -4.573e+01 6.759e+02 -0.068 0.94606   
## Item\_IdentifierNCO18 8.931e+02 7.961e+02 1.122 0.26194   
## Item\_IdentifierNCO26 -9.177e+01 7.117e+02 -0.129 0.89741   
## Item\_IdentifierNCO29 -1.246e+00 6.777e+02 -0.002 0.99853   
## Item\_IdentifierNCO30 4.048e+02 8.081e+02 0.501 0.61639   
## Item\_IdentifierNCO41 -3.425e+02 8.185e+02 -0.418 0.67565   
## Item\_IdentifierNCO42 1.703e+02 6.559e+02 0.260 0.79513   
## Item\_IdentifierNCO43 -2.171e+02 8.259e+02 -0.263 0.79264   
## Item\_IdentifierNCO53 1.181e+03 8.708e+02 1.356 0.17499   
## Item\_IdentifierNCO54 -1.013e+03 1.149e+03 -0.882 0.37789   
## Item\_IdentifierNCO55 -3.605e+02 7.906e+02 -0.456 0.64840   
## Item\_IdentifierNCP02 -1.046e+03 1.182e+03 -0.886 0.37591   
## Item\_IdentifierNCP05 6.860e+02 6.217e+02 1.103 0.26987   
## Item\_IdentifierNCP06 -3.040e+02 6.393e+02 -0.475 0.63448   
## Item\_IdentifierNCP14 3.505e+02 9.046e+02 0.387 0.69846   
## Item\_IdentifierNCP17 -1.093e+03 1.114e+03 -0.982 0.32635   
## Item\_IdentifierNCP18 5.118e+02 6.355e+02 0.805 0.42070   
## Item\_IdentifierNCP29 -1.260e+03 1.090e+03 -1.156 0.24763   
## Item\_IdentifierNCP30 -1.637e+03 1.330e+03 -1.231 0.21849   
## Item\_IdentifierNCP41 -2.985e+02 8.210e+02 -0.364 0.71620   
## Item\_IdentifierNCP42 8.316e+02 9.076e+02 0.916 0.35958   
## Item\_IdentifierNCP43 3.963e+02 8.078e+02 0.491 0.62375   
## Item\_IdentifierNCP50 -9.852e+02 9.419e+02 -1.046 0.29563   
## Item\_IdentifierNCP53 1.526e+03 1.300e+03 1.174 0.24050   
## Item\_IdentifierNCP54 -2.830e+01 7.563e+02 -0.037 0.97016   
## Item\_IdentifierNCP55 -9.726e+02 1.173e+03 -0.829 0.40692   
## Item\_IdentifierNCQ02 1.086e+03 9.473e+02 1.147 0.25150   
## Item\_IdentifierNCQ05 3.861e+02 6.175e+02 0.625 0.53178   
## Item\_IdentifierNCQ06 1.706e+03 1.410e+03 1.210 0.22628   
## Item\_IdentifierNCQ17 3.772e+02 7.477e+02 0.504 0.61394   
## Item\_IdentifierNCQ18 -4.140e+02 8.734e+02 -0.474 0.63552   
## Item\_IdentifierNCQ29 1.694e+02 1.558e+03 0.109 0.91339   
## Item\_IdentifierNCQ30 -6.747e+02 7.163e+02 -0.942 0.34624   
## Item\_IdentifierNCQ38 -6.046e+02 7.496e+02 -0.807 0.41993   
## Item\_IdentifierNCQ41 4.620e+02 9.052e+02 0.510 0.60981   
## Item\_IdentifierNCQ42 6.806e+01 6.736e+02 0.101 0.91952   
## Item\_IdentifierNCQ43 -9.927e+02 7.190e+02 -1.381 0.16743   
## Item\_IdentifierNCQ50 1.868e+03 1.041e+03 1.793 0.07295 .   
## Item\_IdentifierNCQ53 2.549e+03 1.241e+03 2.054 0.04001 \*   
## Item\_IdentifierNCQ54 1.454e+03 7.446e+02 1.953 0.05088 .   
## Item\_IdentifierNCR05 6.248e+02 8.998e+02 0.694 0.48744   
## Item\_IdentifierNCR06 -1.594e+03 1.343e+03 -1.187 0.23523   
## Item\_IdentifierNCR17 -2.303e+01 7.166e+02 -0.032 0.97437   
## Item\_IdentifierNCR18 -1.834e+03 1.310e+03 -1.400 0.16157   
## Item\_IdentifierNCR29 -1.369e+03 1.207e+03 -1.134 0.25690   
## Item\_IdentifierNCR30 -9.985e+02 1.001e+03 -0.997 0.31868   
## Item\_IdentifierNCR38 1.908e+03 1.412e+03 1.351 0.17675   
## Item\_IdentifierNCR41 -4.620e+02 8.353e+02 -0.553 0.58025   
## Item\_IdentifierNCR42 -1.428e+03 1.460e+03 -0.978 0.32822   
## Item\_IdentifierNCR50 1.531e+03 7.429e+02 2.060 0.03943 \*   
## Item\_IdentifierNCR53 1.597e+03 1.129e+03 1.414 0.15746   
## Item\_IdentifierNCR54 3.730e+02 9.226e+02 0.404 0.68599   
## Item\_IdentifierNCS05 -5.397e+02 7.367e+02 -0.733 0.46385   
## Item\_IdentifierNCS06 1.034e+03 1.499e+03 0.690 0.49018   
## Item\_IdentifierNCS17 -2.673e+02 8.709e+02 -0.307 0.75893   
## Item\_IdentifierNCS18 2.369e+01 7.855e+02 0.030 0.97594   
## Item\_IdentifierNCS29 1.361e+03 1.542e+03 0.883 0.37751   
## Item\_IdentifierNCS30 1.100e+02 6.483e+02 0.170 0.86522   
## Item\_IdentifierNCS38 -7.927e+02 7.958e+02 -0.996 0.31924   
## Item\_IdentifierNCS41 -9.145e+02 1.038e+03 -0.881 0.37827   
## Item\_IdentifierNCS42 -3.307e+02 9.253e+02 -0.357 0.72082   
## Item\_IdentifierNCS53 2.524e+02 6.401e+02 0.394 0.69342   
## Item\_IdentifierNCS54 1.361e+03 7.413e+02 1.836 0.06636 .   
## Item\_IdentifierNCT05 1.384e+03 1.481e+03 0.934 0.35009   
## Item\_IdentifierNCT06 2.304e+02 7.388e+02 0.312 0.75511   
## Item\_IdentifierNCT17 1.166e+03 8.662e+02 1.347 0.17815   
## Item\_IdentifierNCT18 1.438e+03 8.506e+02 1.691 0.09087 .   
## Item\_IdentifierNCT29 -3.810e+02 7.607e+02 -0.501 0.61648   
## Item\_IdentifierNCT30 -1.045e+03 1.250e+03 -0.836 0.40296   
## Item\_IdentifierNCT41 1.982e+02 6.936e+02 0.286 0.77513   
## Item\_IdentifierNCT42 -4.835e+02 6.583e+02 -0.734 0.46269   
## Item\_IdentifierNCT53 -3.119e+02 8.369e+02 -0.373 0.70939   
## Item\_IdentifierNCT54 -1.100e+03 8.725e+02 -1.261 0.20726   
## Item\_IdentifierNCU05 -1.019e+03 9.485e+02 -1.074 0.28273   
## Item\_IdentifierNCU06 1.344e+03 1.270e+03 1.058 0.28990   
## Item\_IdentifierNCU17 -6.346e+02 7.769e+02 -0.817 0.41407   
## Item\_IdentifierNCU18 2.489e+02 6.523e+02 0.382 0.70276   
## Item\_IdentifierNCU29 5.471e+02 7.996e+02 0.684 0.49385   
## Item\_IdentifierNCU30 5.244e+02 7.253e+02 0.723 0.46969   
## Item\_IdentifierNCU41 1.691e+03 9.136e+02 1.851 0.06417 .   
## Item\_IdentifierNCU42 1.517e+03 7.208e+02 2.105 0.03533 \*   
## Item\_IdentifierNCU53 -2.523e+02 7.762e+02 -0.325 0.74522   
## Item\_IdentifierNCU54 1.853e+03 1.001e+03 1.851 0.06417 .   
## Item\_IdentifierNCV05 -2.458e+02 6.959e+02 -0.353 0.72388   
## Item\_IdentifierNCV06 5.093e+02 8.458e+02 0.602 0.54710   
## Item\_IdentifierNCV17 6.282e+02 7.434e+02 0.845 0.39810   
## Item\_IdentifierNCV18 6.415e+02 1.129e+03 0.568 0.56998   
## Item\_IdentifierNCV29 5.004e+02 7.916e+02 0.632 0.52728   
## Item\_IdentifierNCV30 -1.046e+03 1.131e+03 -0.924 0.35526   
## Item\_IdentifierNCV41 -5.553e+02 7.085e+02 -0.784 0.43319   
## Item\_IdentifierNCV42 -2.146e+02 8.724e+02 -0.246 0.80569   
## Item\_IdentifierNCV53 2.896e+03 1.294e+03 2.238 0.02524 \*   
## Item\_IdentifierNCV54 -5.674e+02 6.821e+02 -0.832 0.40556   
## Item\_IdentifierNCW05 1.121e+03 1.002e+03 1.119 0.26315   
## Item\_IdentifierNCW06 4.300e+02 8.861e+02 0.485 0.62746   
## Item\_IdentifierNCW17 5.523e+02 7.448e+02 0.742 0.45841   
## Item\_IdentifierNCW18 1.309e+03 1.310e+03 0.999 0.31788   
## Item\_IdentifierNCW29 -3.408e+02 6.647e+02 -0.513 0.60823   
## Item\_IdentifierNCW30 1.258e+03 1.613e+03 0.780 0.43521   
## Item\_IdentifierNCW41 5.433e+02 7.101e+02 0.765 0.44430   
## Item\_IdentifierNCW42 9.985e+02 1.126e+03 0.887 0.37533   
## Item\_IdentifierNCW53 1.559e+02 8.518e+02 0.183 0.85478   
## Item\_IdentifierNCW54 -1.193e+03 1.178e+03 -1.012 0.31134   
## Item\_IdentifierNCX05 -5.455e+02 6.772e+02 -0.805 0.42057   
## Item\_IdentifierNCX06 8.319e+02 8.197e+02 1.015 0.31020   
## Item\_IdentifierNCX17 1.296e+03 1.299e+03 0.998 0.31830   
## Item\_IdentifierNCX18 7.781e+02 8.793e+02 0.885 0.37620   
## Item\_IdentifierNCX29 2.413e+02 6.127e+02 0.394 0.69376   
## Item\_IdentifierNCX30 1.825e+03 1.362e+03 1.340 0.18028   
## Item\_IdentifierNCX41 8.578e+02 1.020e+03 0.841 0.40053   
## Item\_IdentifierNCX42 4.481e+02 6.770e+02 0.662 0.50807   
## Item\_IdentifierNCX53 8.339e+02 9.244e+02 0.902 0.36699   
## Item\_IdentifierNCX54 -4.628e+02 7.460e+02 -0.620 0.53500   
## Item\_IdentifierNCY05 -1.788e+03 1.384e+03 -1.292 0.19651   
## Item\_IdentifierNCY06 -1.868e+01 6.953e+02 -0.027 0.97857   
## Item\_IdentifierNCY17 -1.247e+03 1.308e+03 -0.954 0.34033   
## Item\_IdentifierNCY18 1.082e+03 7.041e+02 1.536 0.12451   
## Item\_IdentifierNCY29 -1.320e+03 1.150e+03 -1.148 0.25103   
## Item\_IdentifierNCY30 7.435e+02 8.534e+02 0.871 0.38371   
## Item\_IdentifierNCY41 -1.409e+03 1.358e+03 -1.038 0.29952   
## Item\_IdentifierNCY42 3.920e+02 7.305e+02 0.537 0.59159   
## Item\_IdentifierNCY53 -2.523e+02 7.678e+02 -0.329 0.74248   
## Item\_IdentifierNCY54 7.958e+02 8.111e+02 0.981 0.32659   
## Item\_IdentifierNCZ05 -9.071e+02 9.052e+02 -1.002 0.31633   
## Item\_IdentifierNCZ06 1.190e+03 1.410e+03 0.844 0.39886   
## Item\_IdentifierNCZ17 -1.188e+03 1.342e+03 -0.886 0.37585   
## Item\_IdentifierNCZ18 2.390e+03 1.418e+03 1.685 0.09199 .   
## Item\_IdentifierNCZ29 1.654e+01 7.505e+02 0.022 0.98242   
## Item\_IdentifierNCZ30 -3.596e+02 6.722e+02 -0.535 0.59271   
## Item\_IdentifierNCZ41 -3.007e+02 7.106e+02 -0.423 0.67222   
## Item\_IdentifierNCZ42 1.937e+03 1.272e+03 1.523 0.12782   
## Item\_IdentifierNCZ53 9.475e+02 8.625e+02 1.099 0.27199   
## Item\_IdentifierNCZ54 1.477e+03 6.694e+02 2.206 0.02740 \*   
## Item\_Weight -2.761e+00 7.347e+00 -0.376 0.70709   
## Item\_Fat\_ContentRegular NA NA NA NA   
## Item\_Visibility -6.108e+02 8.200e+02 -0.745 0.45634   
## Item\_TypeBreads NA NA NA NA   
## Item\_TypeBreakfast NA NA NA NA   
## Item\_TypeCanned NA NA NA NA   
## Item\_TypeDairy NA NA NA NA   
## Item\_TypeFrozen Foods NA NA NA NA   
## Item\_TypeFruits and Vegetables NA NA NA NA   
## Item\_TypeHard Drinks NA NA NA NA   
## Item\_TypeHealth and Hygiene NA NA NA NA   
## Item\_TypeHousehold NA NA NA NA   
## Item\_TypeMeat NA NA NA NA   
## Item\_TypeOthers NA NA NA NA   
## Item\_TypeSeafood NA NA NA NA   
## Item\_TypeSnack Foods NA NA NA NA   
## Item\_TypeSoft Drinks NA NA NA NA   
## Item\_TypeStarchy Foods NA NA NA NA   
## Item\_MRP 1.800e-01 1.131e+01 0.016 0.98730   
## Outlet\_IdentifierOUT013 1.330e+12 8.733e+11 1.523 0.12785   
## Outlet\_IdentifierOUT017 -1.088e+12 7.145e+11 -1.523 0.12785   
## Outlet\_IdentifierOUT018 -1.330e+12 8.733e+11 -1.523 0.12785   
## Outlet\_IdentifierOUT019 1.572e+12 1.032e+12 1.523 0.12785   
## Outlet\_IdentifierOUT027 1.572e+12 1.032e+12 1.523 0.12785   
## Outlet\_IdentifierOUT035 -7.254e+11 4.763e+11 -1.523 0.12785   
## Outlet\_IdentifierOUT045 -4.836e+11 3.176e+11 -1.523 0.12785   
## Outlet\_IdentifierOUT046 1.209e+11 7.939e+10 1.523 0.12785   
## Outlet\_IdentifierOUT049 -1.209e+11 7.939e+10 -1.523 0.12785   
## Outlet\_Establishment\_Year 1.209e+11 7.939e+10 1.523 0.12785   
## Outlet\_SizeHigh NA NA NA NA   
## Outlet\_SizeMedium NA NA NA NA   
## Outlet\_SizeSmall NA NA NA NA   
## Outlet\_Location\_TypeTier 2 NA NA NA NA   
## Outlet\_Location\_TypeTier 3 NA NA NA NA   
## Outlet\_TypeSupermarket Type1 NA NA NA NA   
## Outlet\_TypeSupermarket Type2 NA NA NA NA   
## Outlet\_TypeSupermarket Type3 NA NA NA NA   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1128 on 6951 degrees of freedom  
## Multiple R-squared: 0.6434, Adjusted R-squared: 0.5629   
## F-statistic: 7.985 on 1571 and 6951 DF, p-value: < 2.2e-16

ins\_Predicted <- predict(RegModel, testnew)

## Warning in predict.lm(RegModel, testnew): prediction from a rank-deficient  
## fit may be misleading

summary(ins\_Predicted)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -1997 1261 2154 2195 3127 7360

RMSE(trainnew$Item\_Outlet\_Sales,RegModel$fitted.values)

## [1] 1018.924

#..improved regression model using log function  
Regmodellog <- lm(log(Item\_Outlet\_Sales) ~ ., data =trainnew)  
summary(Regmodellog)

##   
## Call:  
## lm(formula = log(Item\_Outlet\_Sales) ~ ., data = trainnew)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -2.07302 -0.26667 0.04542 0.31370 1.48007   
##   
## Coefficients: (24 not defined because of singularities)  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) -5.286e+10 7.198e+10 -0.734 0.462686   
## Item\_IdentifierDRA24 1.598e-01 3.074e-01 0.520 0.603228   
## Item\_IdentifierDRA59 1.545e-01 3.560e-01 0.434 0.664293   
## Item\_IdentifierDRB01 -6.257e-01 4.374e-01 -1.430 0.152638   
## Item\_IdentifierDRB13 2.890e-01 3.965e-01 0.729 0.466163   
## Item\_IdentifierDRB24 3.615e-01 3.371e-01 1.073 0.283516   
## Item\_IdentifierDRB25 -1.053e-01 3.461e-01 -0.304 0.760910   
## Item\_IdentifierDRB48 -9.734e-01 5.989e-01 -1.625 0.104128   
## Item\_IdentifierDRC01 -8.450e-01 5.608e-01 -1.507 0.131918   
## Item\_IdentifierDRC12 -2.332e-02 4.136e-01 -0.056 0.955045   
## Item\_IdentifierDRC13 -2.534e-01 3.427e-01 -0.739 0.459748   
## Item\_IdentifierDRC24 5.481e-01 4.228e-01 1.296 0.194910   
## Item\_IdentifierDRC25 -3.851e-01 4.033e-01 -0.955 0.339750   
## Item\_IdentifierDRC27 1.315e-01 6.099e-01 0.216 0.829359   
## Item\_IdentifierDRC36 1.226e-01 3.524e-01 0.348 0.727926   
## Item\_IdentifierDRC49 1.521e-01 3.626e-01 0.419 0.674878   
## Item\_IdentifierDRD01 -7.847e-01 5.400e-01 -1.453 0.146204   
## Item\_IdentifierDRD12 -2.680e-01 3.854e-01 -0.696 0.486733   
## Item\_IdentifierDRD13 -5.721e-01 4.890e-01 -1.170 0.242103   
## Item\_IdentifierDRD15 5.182e-01 5.469e-01 0.948 0.343403   
## Item\_IdentifierDRD24 -2.711e-02 2.850e-01 -0.095 0.924231   
## Item\_IdentifierDRD25 1.698e-01 3.141e-01 0.541 0.588824   
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## Item\_IdentifierDRE60 7.057e-01 5.242e-01 1.346 0.178219   
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## Item\_IdentifierDRF03 -1.149e+00 5.910e-01 -1.945 0.051851 .   
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## Item\_IdentifierDRJ13 3.315e-01 3.100e-01 1.069 0.284949   
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## Item\_IdentifierDRJ39 4.605e-01 4.945e-01 0.931 0.351808   
## Item\_IdentifierDRJ47 1.775e-01 3.695e-01 0.481 0.630879   
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## Item\_IdentifierDRN59 -9.554e-01 5.927e-01 -1.612 0.107021   
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## Item\_IdentifierFDA35 2.297e-01 3.454e-01 0.665 0.506057   
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## Item\_IdentifierFDB14 -6.623e-02 3.808e-01 -0.174 0.861919   
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## Item\_IdentifierFDB16 -4.899e-01 4.163e-01 -1.177 0.239319   
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## Item\_IdentifierFDC05 3.142e-01 4.361e-01 0.720 0.471288   
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## Item\_IdentifierFDC16 -3.896e-01 4.033e-01 -0.966 0.334139   
## Item\_IdentifierFDC17 4.635e-01 4.554e-01 1.018 0.308875   
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## Item\_IdentifierFDC28 -3.828e-01 3.532e-01 -1.084 0.278460   
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## Item\_IdentifierFDC37 1.610e-01 4.036e-01 0.399 0.690008   
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## Item\_IdentifierFDC44 4.099e-02 3.308e-01 0.124 0.901381   
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## Item\_IdentifierFDC47 8.146e-01 5.340e-01 1.526 0.127166   
## Item\_IdentifierFDC48 2.533e-02 4.474e-01 0.057 0.954855   
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## Item\_IdentifierFDC57 1.788e-01 4.251e-01 0.421 0.674057   
## Item\_IdentifierFDC58 -1.254e+00 5.892e-01 -2.128 0.033390 \*   
## Item\_IdentifierFDC59 -5.315e-01 4.890e-01 -1.087 0.277082   
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## Item\_IdentifierFDD03 1.519e-01 5.608e-01 0.271 0.786523   
## Item\_IdentifierFDD04 -6.842e-02 2.966e-01 -0.231 0.817585   
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## Item\_IdentifierFDD14 3.240e-01 3.701e-01 0.875 0.381415   
## Item\_IdentifierFDD16 -6.482e-01 4.784e-01 -1.355 0.175471   
## Item\_IdentifierFDD17 3.614e-01 5.704e-01 0.634 0.526369   
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## Item\_IdentifierFDD21 9.402e-02 3.280e-01 0.287 0.774393   
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## Item\_IdentifierFDD40 3.346e-01 3.957e-01 0.845 0.397875   
## Item\_IdentifierFDD41 -1.833e-01 3.501e-01 -0.524 0.600484   
## Item\_IdentifierFDD44 8.761e-01 6.635e-01 1.320 0.186762   
## Item\_IdentifierFDD45 -2.833e-01 4.102e-01 -0.691 0.489739   
## Item\_IdentifierFDD46 -1.702e-01 3.057e-01 -0.557 0.577770   
## Item\_IdentifierFDD47 7.048e-01 3.359e-01 2.098 0.035934 \*   
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## Item\_IdentifierFDD50 3.444e-01 3.193e-01 1.079 0.280723   
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## Item\_IdentifierFDE04 4.490e-01 3.561e-01 1.261 0.207340   
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## Item\_IdentifierFDE08 3.717e-01 3.120e-01 1.191 0.233548   
## Item\_IdentifierFDE09 -2.007e-01 3.493e-01 -0.575 0.565611   
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## Item\_IdentifierFDE11 4.761e-01 3.540e-01 1.345 0.178753   
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## Item\_IdentifierFDE16 9.050e-01 4.448e-01 2.035 0.041897 \*   
## Item\_IdentifierFDE17 1.275e-01 2.904e-01 0.439 0.660748   
## Item\_IdentifierFDE20 4.711e-01 3.403e-01 1.384 0.166291   
## Item\_IdentifierFDE21 -8.098e-02 3.857e-01 -0.210 0.833721   
## Item\_IdentifierFDE22 1.605e-01 3.230e-01 0.497 0.619338   
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## Item\_IdentifierFDE24 -2.698e-01 2.965e-01 -0.910 0.362771   
## Item\_IdentifierFDE26 1.396e-01 3.110e-01 0.449 0.653501   
## Item\_IdentifierFDE28 4.846e-01 5.486e-01 0.883 0.377060   
## Item\_IdentifierFDE29 -6.349e-01 5.108e-01 -1.243 0.213925   
## Item\_IdentifierFDE32 -1.469e+00 6.080e-01 -2.417 0.015695 \*   
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## Item\_IdentifierFDE34 4.643e-01 3.627e-01 1.280 0.200507   
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## Item\_IdentifierFDE38 3.263e-01 4.339e-01 0.752 0.452057   
## Item\_IdentifierFDE39 3.425e-01 4.340e-01 0.789 0.430094   
## Item\_IdentifierFDE40 -5.442e-01 5.130e-01 -1.061 0.288826   
## Item\_IdentifierFDE41 -3.171e-01 4.165e-01 -0.761 0.446401   
## Item\_IdentifierFDE44 -7.580e-01 5.668e-01 -1.337 0.181163   
## Item\_IdentifierFDE45 6.221e-01 3.634e-01 1.712 0.086938 .   
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## Item\_IdentifierFDE47 -1.344e-04 3.420e-01 0.000 0.999686   
## Item\_IdentifierFDE50 3.243e-01 4.332e-01 0.749 0.454179   
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## Item\_IdentifierFDE53 -4.636e-01 3.590e-01 -1.291 0.196654   
## Item\_IdentifierFDE56 -2.165e-01 5.273e-01 -0.411 0.681412   
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## Item\_IdentifierFDF08 -2.155e-01 4.011e-01 -0.537 0.591049   
## Item\_IdentifierFDF09 -1.642e+00 6.100e-01 -2.691 0.007137 \*\*   
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## Item\_IdentifierFDF11 3.346e-01 5.902e-01 0.567 0.570773   
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## Item\_IdentifierFDF14 1.824e-01 3.354e-01 0.544 0.586536   
## Item\_IdentifierFDF16 2.134e-01 2.789e-01 0.765 0.444243   
## Item\_IdentifierFDF17 4.344e-01 4.596e-01 0.945 0.344625   
## Item\_IdentifierFDF20 3.818e-01 4.098e-01 0.932 0.351552   
## Item\_IdentifierFDF21 4.278e-01 3.762e-01 1.137 0.255550   
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## Item\_IdentifierFDF24 -8.877e-02 4.237e-01 -0.210 0.834042   
## Item\_IdentifierFDF26 -3.600e-02 3.026e-01 -0.119 0.905320   
## Item\_IdentifierFDF28 -9.904e-02 3.738e-01 -0.265 0.791026   
## Item\_IdentifierFDF29 -5.736e-02 3.166e-01 -0.181 0.856244   
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## Item\_IdentifierFDG12 -8.579e-03 3.141e-01 -0.027 0.978208   
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## Item\_IdentifierFDG28 -6.428e-03 6.784e-01 -0.009 0.992440   
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## Item\_IdentifierFDG40 -1.079e+00 6.492e-01 -1.662 0.096600 .   
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## Item\_IdentifierFDH17 -1.824e-01 3.664e-01 -0.498 0.618676   
## Item\_IdentifierFDH19 1.811e-01 3.285e-01 0.551 0.581430   
## Item\_IdentifierFDH20 -1.415e-01 3.754e-01 -0.377 0.706284   
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## Item\_IdentifierFDH28 -1.319e+00 6.030e-01 -2.188 0.028695 \*   
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## Item\_IdentifierFDH38 3.914e-02 3.241e-01 0.121 0.903870   
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## Item\_IdentifierFDH60 3.732e-01 4.087e-01 0.913 0.361212   
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## Item\_IdentifierFDI22 4.787e-01 4.443e-01 1.077 0.281321   
## Item\_IdentifierFDI24 5.277e-01 3.594e-01 1.468 0.142126   
## Item\_IdentifierFDI26 3.285e-01 3.411e-01 0.963 0.335572   
## Item\_IdentifierFDI27 -1.130e+00 6.023e-01 -1.877 0.060612 .   
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## Item\_IdentifierFDI33 1.483e-01 4.049e-01 0.366 0.714112   
## Item\_IdentifierFDI34 5.768e-01 5.424e-01 1.063 0.287608   
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## Item\_IdentifierFDI38 7.218e-01 4.571e-01 1.579 0.114364   
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## Item\_IdentifierFDI53 -1.475e-01 3.785e-01 -0.390 0.696836   
## Item\_IdentifierFDI56 -1.209e-01 3.925e-01 -0.308 0.758097   
## Item\_IdentifierFDI57 5.656e-01 4.005e-01 1.412 0.157850   
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## Item\_IdentifierFDJ26 7.145e-02 4.874e-01 0.147 0.883448   
## Item\_IdentifierFDJ27 -1.332e-01 3.898e-01 -0.342 0.732505   
## Item\_IdentifierFDJ28 1.037e-01 4.196e-01 0.247 0.804783   
## Item\_IdentifierFDJ32 -1.280e+00 5.288e-01 -2.421 0.015523 \*   
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## Item\_IdentifierFDJ34 -2.419e-01 3.075e-01 -0.787 0.431448   
## Item\_IdentifierFDJ36 -4.724e-01 3.709e-01 -1.274 0.202840   
## Item\_IdentifierFDJ38 5.356e-01 3.855e-01 1.389 0.164779   
## Item\_IdentifierFDJ40 9.388e-02 3.992e-01 0.235 0.814089   
## Item\_IdentifierFDJ41 5.333e-01 6.815e-01 0.783 0.433879   
## Item\_IdentifierFDJ44 3.129e-01 3.238e-01 0.966 0.333930   
## Item\_IdentifierFDJ45 -9.164e-01 6.210e-01 -1.476 0.140115   
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## Item\_IdentifierFDJ48 3.926e-01 6.079e-01 0.646 0.518491   
## Item\_IdentifierFDJ50 -5.980e-01 5.860e-01 -1.020 0.307590   
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## Item\_IdentifierFDJ55 7.379e-01 5.073e-01 1.455 0.145781   
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## Item\_IdentifierFDJ58 4.837e-01 3.176e-01 1.523 0.127763   
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## Item\_IdentifierFDK21 4.000e-01 6.227e-01 0.642 0.520722   
## Item\_IdentifierFDK22 6.463e-02 4.926e-01 0.131 0.895627   
## Item\_IdentifierFDK24 -7.943e-01 5.761e-01 -1.379 0.168022   
## Item\_IdentifierFDK25 5.243e-01 3.278e-01 1.599 0.109801   
## Item\_IdentifierFDK26 6.254e-01 3.645e-01 1.716 0.086226 .   
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## Item\_IdentifierFDK28 8.981e-01 6.703e-01 1.340 0.180339   
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## Item\_IdentifierFDK36 -9.896e-01 5.715e-01 -1.732 0.083386 .   
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## Item\_IdentifierFDK46 3.492e-01 6.986e-01 0.500 0.617142   
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## Item\_IdentifierFDK51 3.960e-01 6.954e-01 0.569 0.569065   
## Item\_IdentifierFDK52 6.345e-01 5.201e-01 1.220 0.222578   
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## Item\_IdentifierFDK57 3.408e-01 5.648e-01 0.603 0.546249   
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## Item\_IdentifierFDL03 1.165e-01 4.175e-01 0.279 0.780174   
## Item\_IdentifierFDL04 -1.027e-01 3.508e-01 -0.293 0.769721   
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## Item\_IdentifierFDL10 -2.266e-01 3.530e-01 -0.642 0.520816   
## Item\_IdentifierFDL12 -5.178e-01 5.246e-01 -0.987 0.323668   
## Item\_IdentifierFDL13 4.404e-01 5.479e-01 0.804 0.421481   
## Item\_IdentifierFDL14 1.280e-01 3.384e-01 0.378 0.705161   
## Item\_IdentifierFDL15 -1.957e-01 3.670e-01 -0.533 0.593869   
## Item\_IdentifierFDL16 -8.745e-01 5.823e-01 -1.502 0.133204   
## Item\_IdentifierFDL20 7.296e-02 3.191e-01 0.229 0.819141   
## Item\_IdentifierFDL21 -9.864e-01 6.070e-01 -1.625 0.104195   
## Item\_IdentifierFDL22 -4.528e-01 3.865e-01 -1.171 0.241495   
## Item\_IdentifierFDL24 6.236e-01 3.350e-01 1.861 0.062735 .   
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## Item\_IdentifierFDL27 -4.399e-01 5.132e-01 -0.857 0.391415   
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## Item\_IdentifierFDL46 -5.446e-01 3.115e-01 -1.748 0.080423 .   
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## Item\_IdentifierFDL52 -1.411e+00 6.024e-01 -2.342 0.019219 \*   
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## Item\_IdentifierFDL58 6.036e-01 6.850e-01 0.881 0.378312   
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## Item\_IdentifierFDM03 -3.658e-01 3.566e-01 -1.026 0.305123   
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## Item\_IdentifierFDM08 4.949e-01 5.100e-01 0.970 0.331857   
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## Item\_IdentifierFDM12 -4.789e-01 4.361e-01 -1.098 0.272182   
## Item\_IdentifierFDM13 -8.020e-01 3.147e-01 -2.549 0.010831 \*   
## Item\_IdentifierFDM14 -2.104e-01 4.020e-01 -0.523 0.600658   
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## Item\_IdentifierFDM22 -7.185e-01 5.604e-01 -1.282 0.199897   
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## Item\_IdentifierFDM27 2.170e-01 3.241e-01 0.669 0.503212   
## Item\_IdentifierFDM28 -6.050e-02 3.552e-01 -0.170 0.864753   
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## Item\_IdentifierFDN03 4.722e-01 6.341e-01 0.745 0.456553   
## Item\_IdentifierFDN04 1.144e-02 3.424e-01 0.033 0.973353   
## Item\_IdentifierFDN08 -1.964e-01 3.350e-01 -0.586 0.557613   
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## Item\_IdentifierFDN12 -1.227e-01 3.241e-01 -0.379 0.705025   
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## Item\_IdentifierFDN16 -1.275e-01 3.669e-01 -0.347 0.728230   
## Item\_IdentifierFDN20 3.284e-01 3.877e-01 0.847 0.397063   
## Item\_IdentifierFDN21 -1.121e-01 3.027e-01 -0.370 0.711026   
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## Item\_IdentifierFDN23 2.760e-01 2.968e-01 0.930 0.352390   
## Item\_IdentifierFDN24 -3.832e-01 5.461e-01 -0.702 0.482856   
## Item\_IdentifierFDN25 -1.012e+00 5.323e-01 -1.902 0.057203 .   
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## Item\_IdentifierFDN28 -5.646e-01 3.706e-01 -1.523 0.127716   
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## Item\_IdentifierFDN32 4.381e-01 3.802e-01 1.152 0.249179   
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## Item\_IdentifierFDN38 7.980e-01 6.327e-01 1.261 0.207288   
## Item\_IdentifierFDN39 2.571e-01 3.245e-01 0.792 0.428155   
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## Item\_IdentifierFDN44 2.127e-01 3.436e-01 0.619 0.535838   
## Item\_IdentifierFDN45 2.523e-01 5.328e-01 0.474 0.635826   
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## Item\_IdentifierFDO22 -6.154e-01 4.264e-01 -1.443 0.148965   
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## Item\_IdentifierFDO45 -4.902e-01 4.023e-01 -1.219 0.223067   
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## Item\_IdentifierFDP09 4.964e-01 4.774e-01 1.040 0.298506   
## Item\_IdentifierFDP10 -1.983e-01 3.402e-01 -0.583 0.559953   
## Item\_IdentifierFDP11 1.656e-01 4.770e-01 0.347 0.728475   
## Item\_IdentifierFDP12 -1.352e+00 6.244e-01 -2.165 0.030394 \*   
## Item\_IdentifierFDP13 -1.206e+00 6.154e-01 -1.960 0.050062 .   
## Item\_IdentifierFDP15 1.160e+00 7.185e-01 1.614 0.106532   
## Item\_IdentifierFDP16 5.430e-01 6.148e-01 0.883 0.377162   
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## Item\_IdentifierFDQ03 2.165e-01 5.818e-01 0.372 0.709765   
## Item\_IdentifierFDQ04 -1.472e+00 6.336e-01 -2.324 0.020169 \*   
## Item\_IdentifierFDQ07 1.493e-01 5.107e-01 0.292 0.770018   
## Item\_IdentifierFDQ08 -7.414e-01 5.010e-01 -1.480 0.138956   
## Item\_IdentifierFDQ09 -3.263e-01 3.271e-01 -0.998 0.318468   
## Item\_IdentifierFDQ10 4.728e-01 3.234e-01 1.462 0.143794   
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## Item\_IdentifierFDQ19 2.730e-01 6.112e-01 0.447 0.655147   
## Item\_IdentifierFDQ20 -1.174e+00 6.075e-01 -1.933 0.053282 .   
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## Item\_IdentifierFDQ22 -1.290e+00 6.372e-01 -2.024 0.043035 \*   
## Item\_IdentifierFDQ23 -2.021e-01 3.703e-01 -0.546 0.585284   
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## Item\_IdentifierFDQ31 -4.621e-01 4.053e-01 -1.140 0.254271   
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## Item\_IdentifierFDQ36 -1.008e+00 6.080e-01 -1.658 0.097321 .   
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## Item\_IdentifierFDQ39 4.775e-01 3.727e-01 1.281 0.200117   
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## Item\_IdentifierFDQ60 -7.901e-01 5.650e-01 -1.398 0.162054   
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## Item\_IdentifierFDR03 6.227e-01 5.338e-01 1.167 0.243417   
## Item\_IdentifierFDR04 -2.514e-01 3.576e-01 -0.703 0.482157   
## Item\_IdentifierFDR07 -6.245e-01 4.073e-01 -1.533 0.125260   
## Item\_IdentifierFDR08 -4.917e-01 3.363e-01 -1.462 0.143797   
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## Item\_IdentifierFDR10 2.518e-01 3.287e-01 0.766 0.443612   
## Item\_IdentifierFDR11 2.493e-01 3.448e-01 0.723 0.469792   
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## Item\_IdentifierFDR13 -4.174e-01 3.844e-01 -1.086 0.277600   
## Item\_IdentifierFDR14 -1.097e+00 5.518e-01 -1.988 0.046863 \*   
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## Item\_IdentifierFDR23 5.206e-01 3.298e-01 1.579 0.114477   
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## Item\_IdentifierFDR26 4.179e-02 3.487e-01 0.120 0.904604   
## Item\_IdentifierFDR27 1.640e-01 2.896e-01 0.566 0.571202   
## Item\_IdentifierFDR28 2.543e-01 3.296e-01 0.772 0.440357   
## Item\_IdentifierFDR31 2.497e-01 3.108e-01 0.803 0.421892   
## Item\_IdentifierFDR32 4.483e-01 5.327e-01 0.841 0.400104   
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## Item\_IdentifierFDR34 8.077e-01 5.433e-01 1.487 0.137180   
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## Item\_IdentifierFDR52 9.261e-02 3.751e-01 0.247 0.805015   
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## Item\_IdentifierFDS07 -2.084e-01 3.622e-01 -0.575 0.565159   
## Item\_IdentifierFDS08 -1.571e-01 4.061e-01 -0.387 0.698902   
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## Item\_IdentifierFDS16 3.916e-01 2.861e-01 1.369 0.171153   
## Item\_IdentifierFDS19 -3.149e-01 4.410e-01 -0.714 0.475259   
## Item\_IdentifierFDS20 2.656e-01 3.923e-01 0.677 0.498415   
## Item\_IdentifierFDS21 -8.111e-01 5.121e-01 -1.584 0.113278   
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## Item\_IdentifierFDS24 -6.145e-01 4.063e-01 -1.512 0.130498   
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## Item\_IdentifierFDS26 6.711e-01 6.848e-01 0.980 0.327108   
## Item\_IdentifierFDS27 -2.091e-01 3.992e-01 -0.524 0.600405   
## Item\_IdentifierFDS28 -1.316e+00 5.182e-01 -2.539 0.011142 \*   
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## Item\_IdentifierFDS32 -9.297e-02 2.856e-01 -0.326 0.744761   
## Item\_IdentifierFDS33 -1.160e-01 3.890e-01 -0.298 0.765666   
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## Item\_IdentifierFDS36 2.018e-01 3.386e-01 0.596 0.551146   
## Item\_IdentifierFDS37 -2.922e-01 3.251e-01 -0.899 0.368911   
## Item\_IdentifierFDS39 2.593e-01 3.625e-01 0.715 0.474354   
## Item\_IdentifierFDS40 -1.452e+00 6.100e-01 -2.380 0.017358 \*   
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## Item\_IdentifierFDS44 7.548e-01 5.838e-01 1.293 0.196089   
## Item\_IdentifierFDS45 1.947e-01 3.378e-01 0.576 0.564441   
## Item\_IdentifierFDS46 -1.664e-01 3.319e-01 -0.501 0.616126   
## Item\_IdentifierFDS47 -3.405e-01 3.988e-01 -0.854 0.393263   
## Item\_IdentifierFDS48 -5.055e-02 2.991e-01 -0.169 0.865817   
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## Item\_IdentifierFDT08 1.905e-01 2.988e-01 0.638 0.523724   
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## Item\_IdentifierFDT12 2.736e-01 5.173e-01 0.529 0.596932   
## Item\_IdentifierFDT13 4.450e-01 3.909e-01 1.138 0.255043   
## Item\_IdentifierFDT14 2.501e-01 3.303e-01 0.757 0.448931   
## Item\_IdentifierFDT15 4.363e-01 3.756e-01 1.162 0.245333   
## Item\_IdentifierFDT16 7.815e-01 6.838e-01 1.143 0.253139   
## Item\_IdentifierFDT19 4.550e-01 3.511e-01 1.296 0.195043   
## Item\_IdentifierFDT20 -8.674e-01 6.061e-01 -1.431 0.152432   
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## Item\_IdentifierFDT22 -6.621e-01 5.266e-01 -1.257 0.208664   
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## Item\_IdentifierFDT27 3.386e-01 5.632e-01 0.601 0.547733   
## Item\_IdentifierFDT28 1.353e-01 2.994e-01 0.452 0.651237   
## Item\_IdentifierFDT31 3.144e-01 3.823e-01 0.823 0.410796   
## Item\_IdentifierFDT32 2.850e-01 3.656e-01 0.780 0.435640   
## Item\_IdentifierFDT33 1.864e-01 4.377e-01 0.426 0.670291   
## Item\_IdentifierFDT34 -1.557e-01 3.443e-01 -0.452 0.651071   
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## Item\_IdentifierFDT36 -8.282e-01 6.202e-01 -1.335 0.181841   
## Item\_IdentifierFDT37 6.050e-01 6.568e-01 0.921 0.357004   
## Item\_IdentifierFDT38 -3.209e-01 4.693e-01 -0.684 0.494239   
## Item\_IdentifierFDT39 2.879e-01 3.146e-01 0.915 0.360208   
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## Item\_IdentifierFDT49 -2.372e-01 3.337e-01 -0.711 0.477202   
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## Item\_IdentifierFDT51 -6.673e-01 3.672e-01 -1.817 0.069269 .   
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## Item\_IdentifierFDT59 4.250e-01 5.418e-01 0.784 0.432819   
## Item\_IdentifierFDT60 -4.223e-02 3.240e-01 -0.130 0.896315   
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## Item\_IdentifierFDU02 6.300e-01 5.334e-01 1.181 0.237555   
## Item\_IdentifierFDU03 1.006e-01 4.205e-01 0.239 0.810921   
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## Item\_IdentifierFDU07 -3.408e-02 2.994e-01 -0.114 0.909371   
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## Item\_IdentifierFDU10 -8.452e-01 6.281e-01 -1.346 0.178469   
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## Item\_IdentifierFDU12 4.842e-01 6.794e-01 0.713 0.476094   
## Item\_IdentifierFDU13 3.112e-01 2.826e-01 1.101 0.270811   
## Item\_IdentifierFDU14 4.131e-01 6.300e-01 0.656 0.512045   
## Item\_IdentifierFDU15 -9.003e-01 6.151e-01 -1.464 0.143343   
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## Item\_IdentifierFDU27 -9.334e-01 5.766e-01 -1.619 0.105543   
## Item\_IdentifierFDU28 -1.398e-02 3.923e-01 -0.036 0.971575   
## Item\_IdentifierFDU31 3.359e-01 5.117e-01 0.656 0.511633   
## Item\_IdentifierFDU32 4.580e-02 3.145e-01 0.146 0.884220   
## Item\_IdentifierFDU33 -9.673e-01 5.745e-01 -1.684 0.092297 .   
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## Item\_IdentifierFDU37 -2.151e-02 4.471e-01 -0.048 0.961633   
## Item\_IdentifierFDU38 6.098e-01 3.845e-01 1.586 0.112786   
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## Item\_IdentifierFDU44 3.086e-01 3.147e-01 0.980 0.326921   
## Item\_IdentifierFDU45 2.845e-01 3.624e-01 0.785 0.432336   
## Item\_IdentifierFDU46 -1.979e-01 4.020e-01 -0.492 0.622625   
## Item\_IdentifierFDU47 -3.248e-01 3.635e-01 -0.893 0.371636   
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## Item\_IdentifierFDU51 6.518e-01 3.476e-01 1.875 0.060823 .   
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## Item\_IdentifierFDU55 7.682e-01 6.925e-01 1.109 0.267341   
## Item\_IdentifierFDU56 2.357e-01 4.227e-01 0.558 0.577129   
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## Item\_IdentifierFDU58 1.374e-01 3.894e-01 0.353 0.724266   
## Item\_IdentifierFDU59 2.888e-01 3.483e-01 0.829 0.407085   
## Item\_IdentifierFDU60 3.504e-01 3.887e-01 0.901 0.367452   
## Item\_IdentifierFDV01 1.308e-01 2.927e-01 0.447 0.654952   
## Item\_IdentifierFDV02 5.262e-02 3.451e-01 0.152 0.878805   
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## Item\_IdentifierFDV14 -6.583e-01 4.536e-01 -1.451 0.146795   
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## Item\_IdentifierFDV32 -2.138e-01 5.009e-01 -0.427 0.669544   
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## Item\_IdentifierFDV34 -5.629e-01 4.672e-01 -1.205 0.228374   
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## Item\_IdentifierFDV36 7.778e-02 3.408e-01 0.228 0.819457   
## Item\_IdentifierFDV37 -1.151e-01 4.093e-01 -0.281 0.778621   
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## Item\_IdentifierFDV40 -7.503e-01 4.687e-01 -1.601 0.109486   
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## Item\_IdentifierFDV48 -3.734e-01 4.395e-01 -0.850 0.395562   
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## Item\_IdentifierFDV51 -1.028e-01 3.196e-01 -0.322 0.747692   
## Item\_IdentifierFDV52 -1.418e-01 3.349e-01 -0.423 0.672075   
## Item\_IdentifierFDV55 1.319e-01 3.630e-01 0.363 0.716260   
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## Item\_IdentifierFDV59 8.737e-01 5.003e-01 1.746 0.080771 .   
## Item\_IdentifierFDV60 3.905e-01 3.887e-01 1.005 0.315025   
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## Item\_IdentifierFDW07 -5.081e-01 3.973e-01 -1.279 0.200946   
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## Item\_IdentifierFDW10 8.105e-01 4.523e-01 1.792 0.073184 .   
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## Item\_IdentifierFDW12 -1.685e-01 2.855e-01 -0.590 0.554955   
## Item\_IdentifierFDW13 -5.182e-01 5.353e-01 -0.968 0.333098   
## Item\_IdentifierFDW14 -2.054e-01 4.571e-01 -0.449 0.653269   
## Item\_IdentifierFDW15 1.868e-01 3.636e-01 0.514 0.607397   
## Item\_IdentifierFDW16 -9.008e-02 4.156e-01 -0.217 0.828391   
## Item\_IdentifierFDW19 -6.748e-02 3.278e-01 -0.206 0.836906   
## Item\_IdentifierFDW20 1.485e-01 3.444e-01 0.431 0.666352   
## Item\_IdentifierFDW21 -1.903e-01 3.759e-01 -0.506 0.612600   
## Item\_IdentifierFDW22 5.780e-01 5.483e-01 1.054 0.291776   
## Item\_IdentifierFDW23 -1.130e+00 6.114e-01 -1.848 0.064692 .   
## Item\_IdentifierFDW24 -1.213e+00 5.490e-01 -2.209 0.027179 \*   
## Item\_IdentifierFDW25 -7.397e-01 4.262e-01 -1.736 0.082684 .   
## Item\_IdentifierFDW26 3.359e-01 4.941e-01 0.680 0.496619   
## Item\_IdentifierFDW27 -3.805e-02 3.070e-01 -0.124 0.901348   
## Item\_IdentifierFDW28 1.956e-01 3.992e-01 0.490 0.624203   
## Item\_IdentifierFDW31 2.823e-02 4.268e-01 0.066 0.947265   
## Item\_IdentifierFDW32 -2.516e-01 4.048e-01 -0.621 0.534327   
## Item\_IdentifierFDW33 -1.901e-01 3.792e-01 -0.501 0.616129   
## Item\_IdentifierFDW34 5.022e-01 5.954e-01 0.844 0.398964   
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## Item\_IdentifierFDW36 -3.928e-01 3.762e-01 -1.044 0.296463   
## Item\_IdentifierFDW37 -4.358e-01 4.508e-01 -0.967 0.333747   
## Item\_IdentifierFDW38 -9.615e-01 5.318e-01 -1.808 0.070670 .   
## Item\_IdentifierFDW39 -1.778e-02 3.448e-01 -0.052 0.958880   
## Item\_IdentifierFDW40 1.222e-01 3.317e-01 0.368 0.712526   
## Item\_IdentifierFDW43 3.231e-01 5.458e-01 0.592 0.553943   
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## Item\_IdentifierFDW52 4.244e-01 3.498e-01 1.213 0.225125   
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## Item\_IdentifierFDX12 6.368e-01 6.065e-01 1.050 0.293797   
## Item\_IdentifierFDX13 5.786e-01 6.323e-01 0.915 0.360151   
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## Item\_IdentifierFDX19 4.209e-01 5.522e-01 0.762 0.445988   
## Item\_IdentifierFDX20 2.719e-01 5.131e-01 0.530 0.596215   
## Item\_IdentifierFDX21 -3.955e-01 3.235e-01 -1.222 0.221589   
## Item\_IdentifierFDX22 3.515e-01 4.814e-01 0.730 0.465364   
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## Item\_IdentifierFDX26 3.206e-01 3.520e-01 0.911 0.362443   
## Item\_IdentifierFDX27 -2.357e-01 3.998e-01 -0.590 0.555506   
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## Item\_IdentifierFDX32 2.784e-01 2.859e-01 0.974 0.330226   
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## Item\_IdentifierFDX34 1.511e-01 3.152e-01 0.480 0.631589   
## Item\_IdentifierFDX35 5.602e-01 5.399e-01 1.038 0.299432   
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## Item\_IdentifierFDX37 4.483e-02 3.651e-01 0.123 0.902273   
## Item\_IdentifierFDX38 -1.030e+00 5.734e-01 -1.797 0.072458 .   
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## Item\_IdentifierFDX40 -1.007e+00 6.005e-01 -1.678 0.093458 .   
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## Item\_IdentifierFDX46 -8.013e-01 5.202e-01 -1.540 0.123525   
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## Item\_IdentifierFDY02 4.506e-01 6.837e-01 0.659 0.509888   
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## Item\_IdentifierFDY07 -8.301e-01 5.679e-01 -1.462 0.143856   
## Item\_IdentifierFDY08 1.917e-02 3.352e-01 0.057 0.954400   
## Item\_IdentifierFDY09 -3.890e-01 3.989e-01 -0.975 0.329509   
## Item\_IdentifierFDY10 2.342e-02 3.288e-01 0.071 0.943222   
## Item\_IdentifierFDY11 -5.927e-01 4.975e-01 -1.192 0.233490   
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## Item\_IdentifierFDY15 1.529e-01 2.986e-01 0.512 0.608613   
## Item\_IdentifierFDY16 6.427e-01 3.795e-01 1.694 0.090394 .   
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## Item\_IdentifierFDY31 1.749e-01 2.866e-01 0.610 0.541617   
## Item\_IdentifierFDY32 6.730e-01 3.821e-01 1.761 0.078223 .   
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## Item\_IdentifierFDY34 3.151e-01 3.340e-01 0.943 0.345562   
## Item\_IdentifierFDY35 -7.484e-01 5.695e-01 -1.314 0.188890   
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## Item\_IdentifierFDY45 4.208e-01 6.468e-01 0.650 0.515395   
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## Item\_IdentifierFDY47 -2.352e-01 2.833e-01 -0.830 0.406354   
## Item\_IdentifierFDY48 -2.483e-02 3.544e-01 -0.070 0.944142   
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## Item\_IdentifierFDZ02 -9.204e-01 3.992e-01 -2.305 0.021171 \*   
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## Item\_IdentifierFDZ04 -6.912e-01 5.026e-01 -1.375 0.169066   
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## Item\_IdentifierFDZ08 -6.642e-01 4.180e-01 -1.589 0.112150   
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## Item\_IdentifierFDZ12 4.347e-01 2.964e-01 1.466 0.142584   
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## Item\_IdentifierFDZ19 9.641e-02 4.033e-01 0.239 0.811047   
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## Item\_IdentifierFDZ22 -5.442e-01 4.300e-01 -1.266 0.205712   
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## Item\_IdentifierFDZ37 -8.331e-01 4.560e-01 -1.827 0.067724 .   
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## Item\_IdentifierFDZ40 -8.251e-01 5.472e-01 -1.508 0.131623   
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## Item\_IdentifierFDZ44 -3.937e-01 3.233e-01 -1.218 0.223336   
## Item\_IdentifierFDZ45 7.809e-01 4.138e-01 1.887 0.059181 .   
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## Item\_IdentifierFDZ47 -1.939e-01 3.811e-01 -0.509 0.610881   
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## Item\_IdentifierFDZ49 3.020e-01 4.995e-01 0.605 0.545413   
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## Item\_IdentifierFDZ55 4.447e-01 3.104e-01 1.433 0.151990   
## Item\_IdentifierFDZ56 4.404e-01 3.247e-01 1.356 0.175136   
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## Item\_IdentifierFDZ59 5.810e-01 3.222e-01 1.803 0.071440 .   
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## Item\_IdentifierNCA06 -1.401e+00 6.152e-01 -2.277 0.022826 \*   
## Item\_IdentifierNCA17 2.355e-01 3.139e-01 0.750 0.453034   
## Item\_IdentifierNCA18 -3.502e-01 3.559e-01 -0.984 0.325184   
## Item\_IdentifierNCA29 2.722e-01 3.443e-01 0.791 0.429163   
## Item\_IdentifierNCA30 1.748e-01 3.971e-01 0.440 0.659910   
## Item\_IdentifierNCA41 4.501e-01 4.023e-01 1.119 0.263248   
## Item\_IdentifierNCA42 3.632e-01 3.224e-01 1.127 0.259923   
## Item\_IdentifierNCA53 -7.407e-01 5.634e-01 -1.315 0.188629   
## Item\_IdentifierNCA54 2.540e-01 3.834e-01 0.663 0.507671   
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## Item\_IdentifierNCB07 5.539e-01 4.601e-01 1.204 0.228664   
## Item\_IdentifierNCB18 -4.201e-02 3.838e-01 -0.109 0.912848   
## Item\_IdentifierNCB19 -4.016e-01 4.137e-01 -0.971 0.331782   
## Item\_IdentifierNCB30 2.925e-01 4.050e-01 0.722 0.470248   
## Item\_IdentifierNCB31 3.112e-01 6.810e-01 0.457 0.647736   
## Item\_IdentifierNCB42 -9.851e-02 3.232e-01 -0.305 0.760515   
## Item\_IdentifierNCB43 5.336e-01 3.793e-01 1.407 0.159573   
## Item\_IdentifierNCB54 -1.415e-01 3.392e-01 -0.417 0.676537   
## Item\_IdentifierNCB55 -9.618e-01 5.432e-01 -1.771 0.076642 .   
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## Item\_IdentifierNCC07 -4.584e-01 3.528e-01 -1.299 0.193931   
## Item\_IdentifierNCC18 2.797e-01 3.238e-01 0.864 0.387722   
## Item\_IdentifierNCC19 5.188e-01 4.216e-01 1.231 0.218500   
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## Item\_IdentifierNCC31 3.509e-01 3.389e-01 1.036 0.300445   
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## Item\_IdentifierNCD30 -4.708e-01 4.278e-01 -1.101 0.271135   
## Item\_IdentifierNCD31 1.286e-01 3.328e-01 0.386 0.699243   
## Item\_IdentifierNCD42 -1.052e+00 6.154e-01 -1.710 0.087383 .   
## Item\_IdentifierNCD43 -7.176e-01 3.794e-01 -1.891 0.058644 .   
## Item\_IdentifierNCD54 -5.256e-02 2.864e-01 -0.184 0.854386   
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## Item\_IdentifierNCE30 1.274e-01 4.662e-01 0.273 0.784650   
## Item\_IdentifierNCE31 -1.407e+00 6.199e-01 -2.270 0.023239 \*   
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## Item\_IdentifierNCE43 2.072e-01 3.439e-01 0.603 0.546818   
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## Item\_IdentifierNCE55 3.427e-01 4.051e-01 0.846 0.397639   
## Item\_IdentifierNCF06 -2.311e-01 7.036e-01 -0.328 0.742589   
## Item\_IdentifierNCF07 -2.116e-01 3.618e-01 -0.585 0.558651   
## Item\_IdentifierNCF18 7.226e-01 4.032e-01 1.792 0.073123 .   
## Item\_IdentifierNCF19 -8.502e-01 5.719e-01 -1.487 0.137162   
## Item\_IdentifierNCF30 -7.919e-03 3.102e-01 -0.026 0.979634   
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## Item\_IdentifierNCF54 3.636e-01 3.637e-01 1.000 0.317563   
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## Item\_IdentifierNCG18 -3.403e-02 3.695e-01 -0.092 0.926621   
## Item\_IdentifierNCG19 9.389e-02 6.315e-01 0.149 0.881805   
## Item\_IdentifierNCG30 -3.763e-02 3.116e-01 -0.121 0.903864   
## Item\_IdentifierNCG42 -1.021e-01 3.174e-01 -0.322 0.747615   
## Item\_IdentifierNCG43 -2.519e-01 3.793e-01 -0.664 0.506673   
## Item\_IdentifierNCG54 4.686e-01 3.641e-01 1.287 0.198109   
## Item\_IdentifierNCG55 2.142e-01 3.865e-01 0.554 0.579362   
## Item\_IdentifierNCH06 1.483e-01 6.237e-01 0.238 0.812067   
## Item\_IdentifierNCH07 2.550e-01 2.985e-01 0.854 0.392977   
## Item\_IdentifierNCH18 4.049e-01 6.104e-01 0.663 0.507130   
## Item\_IdentifierNCH29 -2.124e-02 3.835e-01 -0.055 0.955839   
## Item\_IdentifierNCH30 -1.793e-01 3.186e-01 -0.563 0.573708   
## Item\_IdentifierNCH42 4.749e-01 5.474e-01 0.868 0.385594   
## Item\_IdentifierNCH43 -2.535e-01 4.823e-01 -0.526 0.599141   
## Item\_IdentifierNCH54 -7.954e-02 3.101e-01 -0.257 0.797548   
## Item\_IdentifierNCH55 -5.876e-02 2.957e-01 -0.199 0.842472   
## Item\_IdentifierNCI06 4.866e-01 3.669e-01 1.326 0.184831   
## Item\_IdentifierNCI17 -4.420e-01 3.812e-01 -1.160 0.246213   
## Item\_IdentifierNCI18 2.215e-02 5.143e-01 0.043 0.965652   
## Item\_IdentifierNCI29 -3.655e-01 2.767e-01 -1.321 0.186616   
## Item\_IdentifierNCI30 1.809e-01 6.102e-01 0.297 0.766835   
## Item\_IdentifierNCI31 -8.553e-01 6.108e-01 -1.400 0.161521   
## Item\_IdentifierNCI42 1.470e-01 4.509e-01 0.326 0.744468   
## Item\_IdentifierNCI43 -1.005e+00 5.650e-01 -1.778 0.075373 .   
## Item\_IdentifierNCI54 -1.264e-01 3.173e-01 -0.398 0.690314   
## Item\_IdentifierNCI55 1.296e-02 3.276e-01 0.040 0.968437   
## Item\_IdentifierNCJ05 7.011e-02 3.014e-01 0.233 0.816078   
## Item\_IdentifierNCJ06 -1.114e-01 3.507e-01 -0.318 0.750825   
## Item\_IdentifierNCJ17 -4.134e-01 4.277e-01 -0.966 0.333831   
## Item\_IdentifierNCJ18 1.406e-01 3.137e-01 0.448 0.654068   
## Item\_IdentifierNCJ19 -3.648e-01 5.370e-01 -0.679 0.496992   
## Item\_IdentifierNCJ29 -5.553e-01 4.138e-01 -1.342 0.179619   
## Item\_IdentifierNCJ30 1.480e-01 3.060e-01 0.484 0.628710   
## Item\_IdentifierNCJ31 3.819e-01 5.996e-01 0.637 0.524206   
## Item\_IdentifierNCJ42 2.065e-02 3.594e-01 0.057 0.954186   
## Item\_IdentifierNCJ43 6.154e-02 3.699e-01 0.166 0.867889   
## Item\_IdentifierNCJ54 7.029e-01 5.573e-01 1.261 0.207235   
## Item\_IdentifierNCK05 -6.986e-01 5.000e-01 -1.397 0.162429   
## Item\_IdentifierNCK06 -4.914e-01 3.271e-01 -1.502 0.133099   
## Item\_IdentifierNCK07 2.432e-01 3.191e-01 0.762 0.445893   
## Item\_IdentifierNCK17 -1.057e+00 5.995e-01 -1.762 0.078030 .   
## Item\_IdentifierNCK18 4.458e-01 3.088e-01 1.443 0.148940   
## Item\_IdentifierNCK19 2.760e-01 3.974e-01 0.695 0.487343   
## Item\_IdentifierNCK29 2.355e-02 2.941e-01 0.080 0.936182   
## Item\_IdentifierNCK30 7.107e-01 6.533e-01 1.088 0.276636   
## Item\_IdentifierNCK31 -9.716e-01 5.918e-01 -1.642 0.100709   
## Item\_IdentifierNCK42 3.799e-01 5.058e-01 0.751 0.452634   
## Item\_IdentifierNCK53 2.365e-01 3.513e-01 0.673 0.500854   
## Item\_IdentifierNCK54 -1.216e-01 3.233e-01 -0.376 0.706729   
## Item\_IdentifierNCL05 -1.073e+00 5.795e-01 -1.851 0.064168 .   
## Item\_IdentifierNCL06 5.574e-01 7.143e-01 0.780 0.435217   
## Item\_IdentifierNCL07 -1.440e+00 6.169e-01 -2.334 0.019638 \*   
## Item\_IdentifierNCL17 3.242e-01 3.310e-01 0.979 0.327384   
## Item\_IdentifierNCL18 2.101e-01 3.942e-01 0.533 0.593997   
## Item\_IdentifierNCL19 -9.957e-02 3.106e-01 -0.321 0.748570   
## Item\_IdentifierNCL29 1.994e-01 2.985e-01 0.668 0.504124   
## Item\_IdentifierNCL30 8.341e-02 3.394e-01 0.246 0.805881   
## Item\_IdentifierNCL31 3.255e-01 2.719e-01 1.197 0.231227   
## Item\_IdentifierNCL41 -1.553e+00 6.226e-01 -2.495 0.012632 \*   
## Item\_IdentifierNCL42 9.948e-01 6.414e-01 1.551 0.120940   
## Item\_IdentifierNCL53 3.638e-01 3.276e-01 1.110 0.266884   
## Item\_IdentifierNCL54 3.613e-01 4.014e-01 0.900 0.368057   
## Item\_IdentifierNCL55 6.221e-01 6.539e-01 0.951 0.341466   
## Item\_IdentifierNCM05 5.933e-01 6.912e-01 0.858 0.390713   
## Item\_IdentifierNCM06 1.672e-01 2.937e-01 0.569 0.569157   
## Item\_IdentifierNCM07 -4.089e-01 4.046e-01 -1.010 0.312322   
## Item\_IdentifierNCM17 -6.503e-01 5.865e-01 -1.109 0.267552   
## Item\_IdentifierNCM18 -1.547e-01 5.518e-01 -0.280 0.779227   
## Item\_IdentifierNCM19 7.749e-02 3.620e-01 0.214 0.830520   
## Item\_IdentifierNCM26 1.776e-01 3.174e-01 0.559 0.575872   
## Item\_IdentifierNCM29 8.089e-02 2.902e-01 0.279 0.780423   
## Item\_IdentifierNCM30 -1.162e+00 5.895e-01 -1.970 0.048833 \*   
## Item\_IdentifierNCM31 1.542e-01 3.314e-01 0.465 0.641629   
## Item\_IdentifierNCM41 -6.290e-01 4.133e-01 -1.522 0.128112   
## Item\_IdentifierNCM42 -2.662e-01 4.488e-01 -0.593 0.553165   
## Item\_IdentifierNCM43 4.374e-01 3.058e-01 1.430 0.152712   
## Item\_IdentifierNCM53 -1.985e-01 3.622e-01 -0.548 0.583688   
## Item\_IdentifierNCM54 1.406e-01 3.193e-01 0.440 0.659691   
## Item\_IdentifierNCM55 4.184e-01 4.257e-01 0.983 0.325710   
## Item\_IdentifierNCN05 8.607e-02 3.644e-01 0.236 0.813301   
## Item\_IdentifierNCN06 3.358e-01 3.315e-01 1.013 0.311117   
## Item\_IdentifierNCN07 -7.103e-02 2.909e-01 -0.244 0.807112   
## Item\_IdentifierNCN14 1.899e-01 3.679e-01 0.516 0.605702   
## Item\_IdentifierNCN17 -3.382e-01 3.905e-01 -0.866 0.386547   
## Item\_IdentifierNCN18 2.454e-01 3.456e-01 0.710 0.477708   
## Item\_IdentifierNCN19 2.188e-01 3.850e-01 0.568 0.569828   
## Item\_IdentifierNCN26 8.368e-02 3.356e-01 0.249 0.803083   
## Item\_IdentifierNCN29 -1.193e+00 5.694e-01 -2.094 0.036256 \*   
## Item\_IdentifierNCN30 -4.451e-01 3.737e-01 -1.191 0.233638   
## Item\_IdentifierNCN41 4.750e-02 3.245e-01 0.146 0.883636   
## Item\_IdentifierNCN42 2.756e-01 3.124e-01 0.882 0.377760   
## Item\_IdentifierNCN43 -7.246e-02 3.109e-01 -0.233 0.815747   
## Item\_IdentifierNCN53 -1.042e+00 6.177e-01 -1.687 0.091660 .   
## Item\_IdentifierNCN54 -1.030e+00 4.571e-01 -2.253 0.024322 \*   
## Item\_IdentifierNCN55 6.896e-01 5.912e-01 1.167 0.243451   
## Item\_IdentifierNCO02 -7.004e-01 4.880e-01 -1.435 0.151287   
## Item\_IdentifierNCO05 -4.923e-02 3.603e-01 -0.137 0.891334   
## Item\_IdentifierNCO06 -1.594e+00 6.278e-01 -2.540 0.011116 \*   
## Item\_IdentifierNCO07 1.107e-01 4.918e-01 0.225 0.821841   
## Item\_IdentifierNCO14 -1.506e+00 5.883e-01 -2.560 0.010485 \*   
## Item\_IdentifierNCO17 1.044e-01 3.067e-01 0.340 0.733546   
## Item\_IdentifierNCO18 3.313e-01 3.612e-01 0.917 0.359121   
## Item\_IdentifierNCO26 1.180e-01 3.229e-01 0.365 0.714844   
## Item\_IdentifierNCO29 7.387e-03 3.075e-01 0.024 0.980835   
## Item\_IdentifierNCO30 2.356e-01 3.667e-01 0.643 0.520505   
## Item\_IdentifierNCO41 -4.609e-02 3.714e-01 -0.124 0.901249   
## Item\_IdentifierNCO42 1.433e-01 2.976e-01 0.482 0.630134   
## Item\_IdentifierNCO43 -2.270e-02 3.748e-01 -0.061 0.951702   
## Item\_IdentifierNCO53 4.130e-01 3.951e-01 1.045 0.295976   
## Item\_IdentifierNCO54 -5.778e-01 5.214e-01 -1.108 0.267844   
## Item\_IdentifierNCO55 -2.884e-02 3.587e-01 -0.080 0.935924   
## Item\_IdentifierNCP02 -4.893e-01 5.362e-01 -0.913 0.361487   
## Item\_IdentifierNCP05 3.036e-01 2.821e-01 1.076 0.281879   
## Item\_IdentifierNCP06 -2.018e-01 2.901e-01 -0.696 0.486573   
## Item\_IdentifierNCP14 2.661e-01 4.105e-01 0.648 0.516823   
## Item\_IdentifierNCP17 -6.149e-01 5.053e-01 -1.217 0.223740   
## Item\_IdentifierNCP18 2.128e-01 2.884e-01 0.738 0.460535   
## Item\_IdentifierNCP29 -7.360e-01 4.945e-01 -1.488 0.136733   
## Item\_IdentifierNCP30 -9.368e-01 6.037e-01 -1.552 0.120724   
## Item\_IdentifierNCP41 2.391e-02 3.725e-01 0.064 0.948837   
## Item\_IdentifierNCP42 3.854e-01 4.118e-01 0.936 0.349354   
## Item\_IdentifierNCP43 1.465e-01 3.666e-01 0.400 0.689420   
## Item\_IdentifierNCP50 -6.334e-01 4.274e-01 -1.482 0.138407   
## Item\_IdentifierNCP53 5.029e-01 5.898e-01 0.853 0.393940   
## Item\_IdentifierNCP54 1.315e-01 3.432e-01 0.383 0.701518   
## Item\_IdentifierNCP55 -8.787e-01 5.321e-01 -1.651 0.098710 .   
## Item\_IdentifierNCQ02 4.762e-01 4.298e-01 1.108 0.267996   
## Item\_IdentifierNCQ05 2.903e-01 2.802e-01 1.036 0.300283   
## Item\_IdentifierNCQ06 4.772e-01 6.398e-01 0.746 0.455777   
## Item\_IdentifierNCQ17 2.505e-01 3.393e-01 0.738 0.460368   
## Item\_IdentifierNCQ18 -9.408e-03 3.963e-01 -0.024 0.981062   
## Item\_IdentifierNCQ29 3.317e-01 7.068e-01 0.469 0.638881   
## Item\_IdentifierNCQ30 -4.753e-01 3.250e-01 -1.462 0.143734   
## Item\_IdentifierNCQ38 -2.352e-01 3.401e-01 -0.692 0.489228   
## Item\_IdentifierNCQ41 2.774e-01 4.107e-01 0.675 0.499445   
## Item\_IdentifierNCQ42 8.859e-02 3.057e-01 0.290 0.771954   
## Item\_IdentifierNCQ43 -5.455e-01 3.262e-01 -1.672 0.094580 .   
## Item\_IdentifierNCQ50 6.108e-01 4.726e-01 1.293 0.196203   
## Item\_IdentifierNCQ53 7.058e-01 5.631e-01 1.253 0.210133   
## Item\_IdentifierNCQ54 4.000e-01 3.379e-01 1.184 0.236543   
## Item\_IdentifierNCR05 1.083e-01 4.083e-01 0.265 0.790723   
## Item\_IdentifierNCR06 -1.043e+00 6.095e-01 -1.711 0.087137 .   
## Item\_IdentifierNCR17 1.084e-01 3.252e-01 0.333 0.738768   
## Item\_IdentifierNCR18 -1.216e+00 5.946e-01 -2.046 0.040843 \*   
## Item\_IdentifierNCR29 -7.667e-01 5.478e-01 -1.399 0.161728   
## Item\_IdentifierNCR30 -1.000e+00 4.543e-01 -2.202 0.027689 \*   
## Item\_IdentifierNCR38 3.758e-01 6.407e-01 0.586 0.557562   
## Item\_IdentifierNCR41 -1.842e-01 3.790e-01 -0.486 0.627025   
## Item\_IdentifierNCR42 -2.304e+00 6.625e-01 -3.478 0.000508 \*\*\*  
## Item\_IdentifierNCR50 4.764e-01 3.371e-01 1.413 0.157626   
## Item\_IdentifierNCR53 5.102e-01 5.125e-01 0.996 0.319495   
## Item\_IdentifierNCR54 1.218e-01 4.186e-01 0.291 0.771074   
## Item\_IdentifierNCS05 -1.494e-01 3.343e-01 -0.447 0.655041   
## Item\_IdentifierNCS06 1.659e-01 6.800e-01 0.244 0.807318   
## Item\_IdentifierNCS17 -1.505e-01 3.952e-01 -0.381 0.703290   
## Item\_IdentifierNCS18 1.242e-01 3.564e-01 0.349 0.727416   
## Item\_IdentifierNCS29 3.531e-01 6.995e-01 0.505 0.613784   
## Item\_IdentifierNCS30 1.343e-01 2.942e-01 0.457 0.648014   
## Item\_IdentifierNCS38 -4.230e-01 3.611e-01 -1.172 0.241402   
## Item\_IdentifierNCS41 -2.930e-01 4.709e-01 -0.622 0.533812   
## Item\_IdentifierNCS42 -6.607e-02 4.199e-01 -0.157 0.874964   
## Item\_IdentifierNCS53 1.106e-01 2.905e-01 0.381 0.703273   
## Item\_IdentifierNCS54 4.913e-01 3.364e-01 1.461 0.144172   
## Item\_IdentifierNCT05 3.174e-01 6.721e-01 0.472 0.636781   
## Item\_IdentifierNCT06 -2.092e-02 3.352e-01 -0.062 0.950241   
## Item\_IdentifierNCT17 3.542e-01 3.930e-01 0.901 0.367601   
## Item\_IdentifierNCT18 5.314e-01 3.860e-01 1.377 0.168603   
## Item\_IdentifierNCT29 -4.882e-01 3.452e-01 -1.414 0.157314   
## Item\_IdentifierNCT30 -1.025e+00 5.671e-01 -1.807 0.070851 .   
## Item\_IdentifierNCT41 -4.687e-04 3.148e-01 -0.001 0.998812   
## Item\_IdentifierNCT42 -2.292e-01 2.987e-01 -0.767 0.442941   
## Item\_IdentifierNCT53 1.923e-01 3.798e-01 0.506 0.612627   
## Item\_IdentifierNCT54 -5.475e-01 3.959e-01 -1.383 0.166715   
## Item\_IdentifierNCU05 -6.436e-01 4.304e-01 -1.495 0.134878   
## Item\_IdentifierNCU06 8.207e-01 5.763e-01 1.424 0.154462   
## Item\_IdentifierNCU17 -2.414e-01 3.525e-01 -0.685 0.493460   
## Item\_IdentifierNCU18 2.555e-01 2.960e-01 0.863 0.388104   
## Item\_IdentifierNCU29 4.798e-01 3.628e-01 1.322 0.186092   
## Item\_IdentifierNCU30 3.296e-01 3.291e-01 1.002 0.316613   
## Item\_IdentifierNCU41 5.587e-01 4.146e-01 1.348 0.177815   
## Item\_IdentifierNCU42 5.978e-01 3.271e-01 1.828 0.067637 .   
## Item\_IdentifierNCU53 -1.460e-01 3.522e-01 -0.414 0.678568   
## Item\_IdentifierNCU54 5.167e-01 4.543e-01 1.138 0.255358   
## Item\_IdentifierNCV05 7.248e-02 3.158e-01 0.230 0.818457   
## Item\_IdentifierNCV06 -1.300e-02 3.838e-01 -0.034 0.972984   
## Item\_IdentifierNCV17 3.844e-01 3.373e-01 1.140 0.254447   
## Item\_IdentifierNCV18 4.607e-01 5.124e-01 0.899 0.368624   
## Item\_IdentifierNCV29 3.878e-01 3.592e-01 1.080 0.280290   
## Item\_IdentifierNCV30 -8.641e-01 5.132e-01 -1.684 0.092270 .   
## Item\_IdentifierNCV41 -1.913e-01 3.215e-01 -0.595 0.551856   
## Item\_IdentifierNCV42 -4.762e-02 3.959e-01 -0.120 0.904244   
## Item\_IdentifierNCV53 9.550e-01 5.870e-01 1.627 0.103825   
## Item\_IdentifierNCV54 -8.561e-02 3.095e-01 -0.277 0.782115   
## Item\_IdentifierNCW05 5.832e-01 4.547e-01 1.283 0.199612   
## Item\_IdentifierNCW06 3.844e-01 4.021e-01 0.956 0.339098   
## Item\_IdentifierNCW17 3.671e-01 3.380e-01 1.086 0.277459   
## Item\_IdentifierNCW18 3.536e-01 5.944e-01 0.595 0.551955   
## Item\_IdentifierNCW29 -4.392e-01 3.016e-01 -1.456 0.145439   
## Item\_IdentifierNCW30 4.172e-01 7.317e-01 0.570 0.568634   
## Item\_IdentifierNCW41 2.555e-01 3.222e-01 0.793 0.427828   
## Item\_IdentifierNCW42 6.589e-01 5.110e-01 1.289 0.197301   
## Item\_IdentifierNCW53 1.465e-01 3.865e-01 0.379 0.704685   
## Item\_IdentifierNCW54 -6.104e-01 5.345e-01 -1.142 0.253486   
## Item\_IdentifierNCX05 -3.112e-01 3.073e-01 -1.013 0.311177   
## Item\_IdentifierNCX06 4.166e-01 3.720e-01 1.120 0.262732   
## Item\_IdentifierNCX17 3.736e-01 5.894e-01 0.634 0.526236   
## Item\_IdentifierNCX18 3.026e-01 3.990e-01 0.758 0.448251   
## Item\_IdentifierNCX29 1.016e-01 2.780e-01 0.365 0.714779   
## Item\_IdentifierNCX30 5.681e-01 6.181e-01 0.919 0.358076   
## Item\_IdentifierNCX41 7.429e-01 4.630e-01 1.605 0.108605   
## Item\_IdentifierNCX42 2.802e-01 3.072e-01 0.912 0.361784   
## Item\_IdentifierNCX53 6.832e-01 4.194e-01 1.629 0.103412   
## Item\_IdentifierNCX54 -2.781e-01 3.385e-01 -0.822 0.411269   
## Item\_IdentifierNCY05 -1.167e+00 6.282e-01 -1.858 0.063228 .   
## Item\_IdentifierNCY06 1.093e-01 3.155e-01 0.346 0.729077   
## Item\_IdentifierNCY17 -6.637e-01 5.933e-01 -1.119 0.263342   
## Item\_IdentifierNCY18 4.779e-01 3.195e-01 1.496 0.134712   
## Item\_IdentifierNCY29 -9.013e-01 5.216e-01 -1.728 0.084074 .   
## Item\_IdentifierNCY30 3.778e-01 3.873e-01 0.976 0.329299   
## Item\_IdentifierNCY41 -8.927e-01 6.163e-01 -1.448 0.147525   
## Item\_IdentifierNCY42 1.846e-01 3.315e-01 0.557 0.577571   
## Item\_IdentifierNCY53 -5.975e-02 3.484e-01 -0.171 0.863839   
## Item\_IdentifierNCY54 3.340e-01 3.681e-01 0.908 0.364138   
## Item\_IdentifierNCZ05 -7.625e-01 4.107e-01 -1.857 0.063419 .   
## Item\_IdentifierNCZ06 4.948e-01 6.400e-01 0.773 0.439431   
## Item\_IdentifierNCZ17 -8.897e-01 6.088e-01 -1.462 0.143917   
## Item\_IdentifierNCZ18 7.568e-01 6.435e-01 1.176 0.239592   
## Item\_IdentifierNCZ29 2.130e-01 3.406e-01 0.625 0.531752   
## Item\_IdentifierNCZ30 -1.484e-01 3.050e-01 -0.487 0.626552   
## Item\_IdentifierNCZ41 -4.724e-02 3.224e-01 -0.146 0.883533   
## Item\_IdentifierNCZ42 7.508e-01 5.770e-01 1.301 0.193266   
## Item\_IdentifierNCZ53 3.932e-01 3.914e-01 1.005 0.315108   
## Item\_IdentifierNCZ54 4.201e-01 3.038e-01 1.383 0.166699   
## Item\_Weight -1.628e-04 3.334e-03 -0.049 0.961045   
## Item\_Fat\_ContentRegular NA NA NA NA   
## Item\_Visibility -2.286e-01 3.721e-01 -0.614 0.538995   
## Item\_TypeBreads NA NA NA NA   
## Item\_TypeBreakfast NA NA NA NA   
## Item\_TypeCanned NA NA NA NA   
## Item\_TypeDairy NA NA NA NA   
## Item\_TypeFrozen Foods NA NA NA NA   
## Item\_TypeFruits and Vegetables NA NA NA NA   
## Item\_TypeHard Drinks NA NA NA NA   
## Item\_TypeHealth and Hygiene NA NA NA NA   
## Item\_TypeHousehold NA NA NA NA   
## Item\_TypeMeat NA NA NA NA   
## Item\_TypeOthers NA NA NA NA   
## Item\_TypeSeafood NA NA NA NA   
## Item\_TypeSnack Foods NA NA NA NA   
## Item\_TypeSoft Drinks NA NA NA NA   
## Item\_TypeStarchy Foods NA NA NA NA   
## Item\_MRP 1.221e-03 5.130e-03 0.238 0.811946   
## Outlet\_IdentifierOUT013 2.910e+08 3.963e+08 0.734 0.462686   
## Outlet\_IdentifierOUT017 -2.381e+08 3.242e+08 -0.734 0.462686   
## Outlet\_IdentifierOUT018 -2.910e+08 3.963e+08 -0.734 0.462686   
## Outlet\_IdentifierOUT019 3.440e+08 4.683e+08 0.734 0.462686   
## Outlet\_IdentifierOUT027 3.440e+08 4.683e+08 0.734 0.462686   
## Outlet\_IdentifierOUT035 -1.587e+08 2.161e+08 -0.734 0.462686   
## Outlet\_IdentifierOUT045 -1.058e+08 1.441e+08 -0.734 0.462686   
## Outlet\_IdentifierOUT046 2.646e+07 3.602e+07 0.734 0.462686   
## Outlet\_IdentifierOUT049 -2.646e+07 3.602e+07 -0.734 0.462686   
## Outlet\_Establishment\_Year 2.646e+07 3.602e+07 0.734 0.462686   
## Outlet\_SizeHigh NA NA NA NA   
## Outlet\_SizeMedium NA NA NA NA   
## Outlet\_SizeSmall NA NA NA NA   
## Outlet\_Location\_TypeTier 2 NA NA NA NA   
## Outlet\_Location\_TypeTier 3 NA NA NA NA   
## Outlet\_TypeSupermarket Type1 NA NA NA NA   
## Outlet\_TypeSupermarket Type2 NA NA NA NA   
## Outlet\_TypeSupermarket Type3 NA NA NA NA   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.512 on 6951 degrees of freedom  
## Multiple R-squared: 0.7933, Adjusted R-squared: 0.7466   
## F-statistic: 16.99 on 1571 and 6951 DF, p-value: < 2.2e-16

ins\_Predictednew <- predict(Regmodellog, testnew[-12])

## Warning in predict.lm(Regmodellog, testnew[-12]): prediction from a rank-  
## deficient fit may be misleading

summary(ins\_Predictednew)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 3.202 6.821 7.517 7.302 7.949 9.216

RMSE(trainnew$Item\_Outlet\_Sales,Regmodellog$fitted.values)

## [1] 2763.288

RMSE(trainnew$Item\_Outlet\_Sales,exp(Regmodellog$fitted.values))

## [1] 1001.009

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Ctrl+Alt+I*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.