Factor.R

##Importing Libraries

library(ggplot2)  
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.4.4

##   
## Attaching package: 'dplyr'

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

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

library (stringr)

## Warning: package 'stringr' was built under R version 3.4.4

library(data.table)

## Warning: package 'data.table' was built under R version 3.4.4

##   
## Attaching package: 'data.table'

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

library(grid)  
library(gridExtra)

##   
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':  
##   
## combine

library(corrplot)

## Warning: package 'corrplot' was built under R version 3.4.4

## corrplot 0.84 loaded

library(psych)

## Warning: package 'psych' was built under R version 3.4.4

##   
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':  
##   
## %+%, alpha

##Importing Dataset and doing preliminary analysis

#Importing CSV file from drive on my local computer and viewing it   
  
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn Analysis Data.csv")  
tablechurn <- as.data.frame(tablechurn)  
View(tablechurn)  
  
#Checking the Dimension of the dataset  
  
dim(tablechurn)

## [1] 7043 21

#Viewing the first 4 rows of the dataset to get the overview of the dataset  
  
head(tablechurn,4)

## CustomerID Gender SeniorCitizen Partner Dependents Tenure PhoneService  
## 1 7590-VHVEG Female 0 Yes No 1 No  
## 2 5575-GNVDE Male 0 No No 34 Yes  
## 3 3668-QPYBK Male 0 No No 2 Yes  
## 4 7795-CFOCW Male 0 No No 45 No  
## MultipleLines InternetService OnlineSecurity OnlineBackup  
## 1 No phone service DSL No Yes  
## 2 No DSL Yes No  
## 3 No DSL Yes Yes  
## 4 No phone service DSL Yes No  
## DeviceProtection TechSupport StreamingTV StreamingMovies Contract  
## 1 No No No No Month-to-month  
## 2 Yes No No No One year  
## 3 No No No No Month-to-month  
## 4 Yes Yes No No One year  
## PaperlessBilling PaymentMethod MonthlyCharges TotalCharges  
## 1 Yes Electronic check 29.85 29.85  
## 2 No Mailed check 56.95 1889.50  
## 3 Yes Mailed check 53.85 108.15  
## 4 No Bank transfer (automatic) 42.30 1840.75  
## Churn  
## 1 No  
## 2 No  
## 3 Yes  
## 4 No

#Gaining more insight about the kind of data stored in each column  
  
summary(tablechurn)

## CustomerID Gender SeniorCitizen Partner Dependents  
## 0002-ORFBO: 1 Female:3488 Min. :0.0000 No :3641 No :4933   
## 0003-MKNFE: 1 Male :3555 1st Qu.:0.0000 Yes:3402 Yes:2110   
## 0004-TLHLJ: 1 Median :0.0000   
## 0011-IGKFF: 1 Mean :0.1621   
## 0013-EXCHZ: 1 3rd Qu.:0.0000   
## 0013-MHZWF: 1 Max. :1.0000   
## (Other) :7037   
## Tenure PhoneService MultipleLines InternetService  
## Min. : 0.00 No : 682 No :3390 DSL :2421   
## 1st Qu.: 9.00 Yes:6361 No phone service: 682 Fiber optic:3096   
## Median :29.00 Yes :2971 No :1526   
## Mean :32.37   
## 3rd Qu.:55.00   
## Max. :72.00   
##   
## OnlineSecurity OnlineBackup   
## No :3498 No :3088   
## No internet service:1526 No internet service:1526   
## Yes :2019 Yes :2429   
##   
##   
##   
##   
## DeviceProtection TechSupport   
## No :3095 No :3473   
## No internet service:1526 No internet service:1526   
## Yes :2422 Yes :2044   
##   
##   
##   
##   
## StreamingTV StreamingMovies  
## No :2810 No :2785   
## No internet service:1526 No internet service:1526   
## Yes :2707 Yes :2732   
##   
##   
##   
##   
## Contract PaperlessBilling PaymentMethod   
## Month-to-month:3875 No :2872 Bank transfer (automatic):1544   
## One year :1473 Yes:4171 Credit card (automatic) :1522   
## Two year :1695 Electronic check :2365   
## Mailed check :1612   
##   
##   
##   
## MonthlyCharges TotalCharges Churn   
## Min. : 18.25 Min. : 18.8 No :5174   
## 1st Qu.: 35.50 1st Qu.: 401.4 Yes:1869   
## Median : 70.35 Median :1397.5   
## Mean : 64.76 Mean :2283.3   
## 3rd Qu.: 89.85 3rd Qu.:3794.7   
## Max. :118.75 Max. :8684.8   
## NA's :11

glimpse(tablechurn)

## Observations: 7,043  
## Variables: 21  
## $ CustomerID <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOC...  
## $ Gender <fct> Female, Male, Male, Male, Female, Female, Mal...  
## $ SeniorCitizen <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...  
## $ Partner <fct> Yes, No, No, No, No, No, No, No, Yes, No, Yes...  
## $ Dependents <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes...  
## $ Tenure <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 5...  
## $ PhoneService <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes...  
## $ MultipleLines <fct> No phone service, No, No, No phone service, N...  
## $ InternetService <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic,...  
## $ OnlineSecurity <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, ...  
## $ OnlineBackup <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, N...  
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, N...  
## $ TechSupport <fct> No, No, No, Yes, No, No, No, No, Yes, No, No,...  
## $ StreamingTV <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No...  
## $ StreamingMovies <fct> No, No, No, No, No, Yes, No, No, Yes, No, No,...  
## $ Contract <fct> Month-to-month, One year, Month-to-month, One...  
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No,...  
## $ PaymentMethod <fct> Electronic check, Mailed check, Mailed check,...  
## $ MonthlyCharges <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89....  
## $ TotalCharges <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820....  
## $ Churn <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, N...

#The above results give us an insight that TotalCharges and MonthlyCharges are numerical values  
#SeniorCitizen and Tenure are stored as numerical which need to be converted to categorical variables

## Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable   
  
tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0 ,1),labels = c('no','yes'))  
  
#Converting tenure values into ranges of 12 months  
  
tablechurn <- mutate(tablechurn,Tenure\_Range = Tenure)  
cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

## [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [7] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years  
## [13] 5-6 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years  
## [19] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [25] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years  
## [31] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
## [37] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years  
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## [877] 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Years  
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## [943] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years  
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## [5659] 1-2 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years  
## [5665] 0-1 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years  
## [5671] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [5677] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years  
## [5683] 0-1 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years  
## [5689] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [5695] 2-3 Years 6-7 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years  
## [5701] 2-3 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years  
## [5707] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years  
## [5713] 1-2 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years  
## [5719] 0-1 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Years 5-6 Years  
## [5725] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years 2-3 Years  
## [5731] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years  
## [5737] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years  
## [5743] 6-7 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years  
## [5749] 1-2 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years  
## [5755] 1-2 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years  
## [5761] 1-2 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [5767] 1-2 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Years  
## [5773] 6-7 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years  
## [5779] 0-1 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years  
## [5785] 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years  
## [5791] 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years  
## [5797] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years  
## [5803] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [5809] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years  
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## [5821] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [5827] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years  
## [5833] 1-2 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [5839] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years  
## [5845] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [5851] 1-2 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years  
## [5857] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years  
## [5863] 1-2 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years  
## [5869] 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years  
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## [5881] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years  
## [5887] 4-5 Years 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years  
## [5893] 0-1 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years 6-7 Years  
## [5899] 2-3 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years  
## [5905] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years  
## [5911] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years 6-7 Years  
## [5917] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 2-3 Years  
## [5923] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years  
## [5929] 6-7 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [5935] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years  
## [5941] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years  
## [5947] 4-5 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years  
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## [5959] 0-1 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years  
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## [5971] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years  
## [5977] 2-3 Years 5-6 Years 4-5 Years 5-6 Years 1-2 Years 4-5 Years  
## [5983] 1-2 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years  
## [5989] 0-1 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [5995] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years  
## [6001] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [6007] 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years  
## [6013] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [6019] 2-3 Years 4-5 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years  
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## [6031] 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years  
## [6037] 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [6043] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years  
## [6049] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years  
## [6055] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 4-5 Years  
## [6061] 0-1 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years  
## [6067] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years  
## [6073] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [6079] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years  
## [6085] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years  
## [6091] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years  
## [6097] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years  
## [6103] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years  
## [6109] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years  
## [6115] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Years 1-2 Years  
## [6121] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 5-6 Years 1-2 Years  
## [6127] 1-2 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Years  
## [6133] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years  
## [6139] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years  
## [6145] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years  
## [6151] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Years  
## [6157] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
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## [6169] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years  
## [6175] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [6181] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 4-5 Years 5-6 Years  
## [6187] 4-5 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years  
## [6193] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years  
## [6199] 2-3 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years  
## [6205] 1-2 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Years 2-3 Years  
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## [6229] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years  
## [6235] 5-6 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [6241] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 5-6 Years  
## [6247] 5-6 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years  
## [6253] 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years  
## [6259] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 4-5 Years 2-3 Years  
## [6265] 4-5 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years  
## [6271] 2-3 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years  
## [6277] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years  
## [6283] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 2-3 Years  
## [6289] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Years 1-2 Years  
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## [6313] 5-6 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years  
## [6319] 0-1 Years 5-6 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years  
## [6325] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years  
## [6331] 1-2 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years  
## [6337] 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years  
## [6343] 4-5 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years  
## [6349] 2-3 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years  
## [6355] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years  
## [6361] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6367] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years  
## [6373] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years  
## [6379] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years  
## [6385] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years  
## [6391] 6-7 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years  
## [6397] 2-3 Years 5-6 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years  
## [6403] 5-6 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 1-2 Years  
## [6409] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [6415] 4-5 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Years 6-7 Years  
## [6421] 2-3 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years  
## [6427] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years  
## [6433] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years  
## [6439] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years  
## [6445] 2-3 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years  
## [6451] 2-3 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years 5-6 Years  
## [6457] 5-6 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years  
## [6463] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years  
## [6469] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years  
## [6475] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years  
## [6481] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years  
## [6487] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years  
## [6493] 1-2 Years 1-2 Years 2-3 Years 0-1 Years 4-5 Years 5-6 Years  
## [6499] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years  
## [6505] 0-1 Years 5-6 Years 1-2 Years 5-6 Years 4-5 Years 0-1 Years  
## [6511] 4-5 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
## [6517] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years  
## [6523] 4-5 Years 1-2 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years  
## [6529] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 2-3 Years  
## [6535] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years  
## [6541] 2-3 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years  
## [6547] 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years  
## [6553] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years  
## [6559] 1-2 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years  
## [6565] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years  
## [6571] 0-1 Years 2-3 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years  
## [6577] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years  
## [6583] 6-7 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years 6-7 Years  
## [6589] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years  
## [6595] 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years  
## [6601] 0-1 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years  
## [6607] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years  
## [6613] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years  
## [6619] 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years  
## [6625] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6631] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years  
## [6637] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years  
## [6643] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years  
## [6649] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years  
## [6655] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years  
## [6661] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years  
## [6667] 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years  
## [6673] 2-3 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Years  
## [6679] 1-2 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years  
## [6685] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## [6691] 4-5 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years  
## [6697] 0-1 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Years  
## [6703] 1-2 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Years  
## [6709] 1-2 Years 5-6 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years  
## [6715] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
## [6721] 6-7 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years  
## [6727] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years  
## [6733] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years  
## [6739] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years  
## [6745] 6-7 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years  
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## [6757] 1-2 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years  
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## [6769] 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years  
## [6775] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years  
## [6781] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years  
## [6787] 0-1 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years  
## [6793] 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 2-3 Years  
## [6799] 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 4-5 Years  
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## [6817] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years  
## [6823] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years  
## [6829] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Years  
## [6835] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years  
## [6841] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years  
## [6847] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years  
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## [6871] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years  
## [6877] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years  
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## [6889] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years  
## [6895] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years  
## [6901] 5-6 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years  
## [6907] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years  
## [6913] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years  
## [6919] 2-3 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years  
## [6925] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years  
## [6931] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years  
## [6937] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years  
## [6943] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years  
## [6949] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years  
## [6955] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years  
## [6961] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years  
## [6967] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years  
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years  
## [6979] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years  
## [6985] 2-3 Years 4-5 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years  
## [6991] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years  
## [6997] 4-5 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years  
## [7003] 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years  
## [7009] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years  
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years  
## [7021] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years  
## [7027] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years  
## [7033] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years  
## [7039] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years  
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

tablechurn$Tenure\_Range <- cut(tablechurn$Tenure\_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))  
  
#Checking if there are any NULL values in any of the columns   
table(is.na(tablechurn))

##   
## FALSE TRUE   
## 154935 11

str\_detect(tablechurn,'NA')

## Warning in stri\_detect\_regex(string, pattern, negate = negate, opts\_regex =  
## opts(pattern)): argument is not an atomic vector; coercing

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE

setDT(tablechurn)  
tablechurn[is.na(TotalCharges),NROW(TotalCharges)]

## [1] 11

#There are 11 rows out of 7043 rows that have null values.Hence removing these rows since they are only 0.15% of total so we can afford to drop them  
  
tablechurn <- tablechurn[complete.cases(tablechurn), ]  
  
#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup DeviceProtection,TechSupport,StreamingTV and StreamingMovies columns with 'No'  
  
tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service'] <- 'No'  
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <- 'No'  
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet service'] <- 'No'  
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'  
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'  
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service'] <- 'No'  
  
#Deleting the unused levels from the factor variables  
  
tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)  
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)  
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)  
tablechurn$TechSupport <- factor(tablechurn$TechSupport)  
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)

library(data.table)  
  
## Creating new data frame for numerical values for doing Factor Analysis  
  
tablechurnFA = data.frame(tablechurn$MonthlyCharges,tablechurn$TotalCharges,tablechurn$Tenure)  
setDT(tablechurnFA)  
  
##Setting column names for our new dataframe  
names(tablechurnFA) <- c('MonthlyCharges','TotalCharges','Tenure')  
  
##head(tablechurnPCA)  
tablechurnFA

## MonthlyCharges TotalCharges Tenure  
## 1: 29.85 29.85 1  
## 2: 56.95 1889.50 34  
## 3: 53.85 108.15 2  
## 4: 42.30 1840.75 45  
## 5: 70.70 151.65 2  
## ---   
## 7028: 84.80 1990.50 24  
## 7029: 103.20 7362.90 72  
## 7030: 29.60 346.45 11  
## 7031: 74.40 306.60 4  
## 7032: 105.65 6844.50 66

library(psych)  
  
##Since we have 3 columns that we are considering for factor analysis , we are checking  
#how will the variance be distrbuted if we create 3 factors and if we really need 3 factors  
#for our analysis.  
  
fit.pc <- principal(tablechurnFA, nfactors=3, rotate="varimax")  
fit.pc

## Principal Components Analysis  
## Call: principal(r = tablechurnFA, nfactors = 3, rotate = "varimax")  
## Standardized loadings (pattern matrix) based upon correlation matrix  
## RC1 RC2 RC3 h2 u2 com  
## MonthlyCharges 0.15 0.98 0.09 1 0.0e+00 1.1  
## TotalCharges 0.77 0.51 0.39 1 -1.3e-15 2.3  
## Tenure 0.99 0.10 0.04 1 -2.0e-15 1.0  
##   
## RC1 RC2 RC3  
## SS loadings 1.60 1.24 0.16  
## Proportion Var 0.53 0.41 0.05  
## Cumulative Var 0.53 0.95 1.00  
## Proportion Explained 0.53 0.41 0.05  
## Cumulative Proportion 0.53 0.95 1.00  
##   
## Mean item complexity = 1.5  
## Test of the hypothesis that 3 components are sufficient.  
##   
## The root mean square of the residuals (RMSR) is 0   
## with the empirical chi square 0 with prob < NA   
##   
## Fit based upon off diagonal values = 1

round(fit.pc$values, 3)

## [1] 2.180 0.761 0.059

fit.pc$loadings

##   
## Loadings:  
## RC1 RC2 RC3   
## MonthlyCharges 0.151 0.985   
## TotalCharges 0.767 0.509 0.391  
## Tenure 0.995   
##   
## RC1 RC2 RC3  
## SS loadings 1.600 1.238 0.162  
## Proportion Var 0.533 0.413 0.054  
## Cumulative Var 0.533 0.946 1.000

# Loadings with more digits  
for (i in c(1,2,3)) { print(fit.pc$loadings[[1,i]])}

## [1] 0.150739  
## [1] 0.984762  
## [1] 0.08672656

# Communalities  
fit.pc$communality

## MonthlyCharges TotalCharges Tenure   
## 1 1 1

# Rotated factor scores, Notice the columns ordering: RC1, RC3, RC2 and RC4  
fit.pc$scores

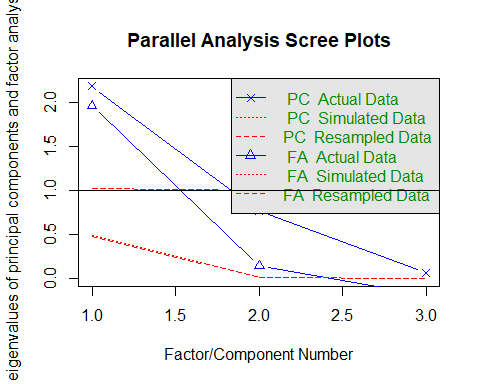
## RC1 RC2 RC3  
## [1,] -1.2311067538 -1.1068588544 1.313981e+00  
## [2,] 0.1006912229 -0.2527791841 -3.125931e-01  
## [3,] -1.2355277231 -0.2006592146 2.299921e-01  
## [4,] 0.6167293819 -0.7944116945 -6.740261e-01  
## [5,] -1.2692030906 0.4361767857 -4.848300e-01  
## [6,] -1.0860264883 1.4689688002 -1.435217e+00  
## [7,] -0.4931440465 0.9531244022 -6.517006e-01  
## [8,] -0.8441184221 -1.1326139027 8.954768e-01  
## [9,] -0.3023273640 1.4328381797 -4.133605e-01  
## [10,] 1.2749111148 -0.4366656911 -5.721077e-01  
## [11,] -0.7613759229 -0.3926387040 9.107749e-02  
## [12,] -0.5594245132 -1.5408678629 8.971746e-01  
## [13,] 0.9249512291 0.9945523412 7.246874e-01  
## [14,] 0.5470104933 1.1862868451 4.883715e-01  
## [15,] -0.4216029521 1.4973027366 -6.697538e-01  
## [16,] 1.2965533840 1.2460438599 2.167117e+00  
## [17,] 1.0005407110 -1.5195233901 -1.405028e+00  
## [18,] 1.4182909366 1.0566067916 1.596247e+00  
## [19,] -0.9015365077 -0.1889436375 3.384503e-02  
## [20,] -0.5356255381 0.9981156178 -7.246407e-01  
## [21,] -1.2500603518 -0.7347188562 8.772166e-01  
## [22,] -0.7327960606 -1.4983282952 1.041247e+00  
## [23,] -1.2123465599 -1.4752015057 1.746289e+00  
## [24,] 1.0902706049 -0.2997161385 -3.690255e-01  
## [25,] 0.7147544860 -0.2594507270 -2.885234e-01  
## [26,] -0.0583904122 -0.2789263398 -3.715634e-01  
## [27,] 0.4785354110 1.0511500856 4.746937e-01  
## [28,] -1.2317836680 -1.0935681402 1.298383e+00  
## [29,] 1.5349472715 0.5457201139 8.900128e-01  
## [30,] -0.6330804484 0.1158308365 -2.525191e-01  
## [31,] 1.4629780341 0.7320657166 1.237021e+00  
## [32,] -1.3173793530 1.3773301477 -1.583059e+00  
## [33,] -0.2255855023 0.0924375126 -1.394434e-01  
## [34,] -1.2124432619 -1.4733028323 1.744061e+00  
## [35,] -1.2608909792 -0.5220674286 6.276368e-01  
## [36,] 1.4806992725 0.8133800146 1.643455e+00  
## [37,] -1.1414176463 0.3823332110 -4.788022e-01  
## [38,] 0.5297751070 0.2510828403 6.140810e-02  
## [39,] -0.0605202331 1.4408079501 -3.300998e-01  
## [40,] -0.9616057458 1.3711107154 -1.230167e+00  
## [41,] -0.8886925248 -0.3981730285 2.219064e-01  
## [42,] 1.5474312370 -0.0884898086 2.193098e-03  
## [43,] -0.5223513490 -1.4816810926 8.505371e-01  
## [44,] 1.2182400473 0.3114827607 1.143816e-01  
## [45,] -0.8271412830 0.5625331363 -5.800428e-01  
## [46,] 0.6294260311 0.5829008424 -1.619800e-01  
## [47,] -1.2263640282 -0.3745956697 4.261203e-01  
## [48,] -1.2877351861 0.8159882594 -9.519477e-01  
## [49,] 0.7583634604 0.3697210512 2.140822e-01  
## [50,] 1.5379940012 -0.2118210395 -5.164234e-01  
## [51,] 0.3560486621 0.8036906338 9.849758e-03  
## [52,] -0.8002212497 1.3863137309 -1.204231e+00  
## [53,] -0.3153816425 0.2318494459 -2.824702e-01  
## [54,] -1.0424205440 0.7665142350 -8.165608e-01  
## [55,] 1.1115952173 0.1639588830 5.858612e-02  
## [56,] -0.6739801441 1.2133255238 -8.582730e-01  
## [57,] 1.1216328804 0.9014776766 1.171403e+00  
## [58,] 1.2064005305 1.1529708868 1.541029e+00  
## [59,] 0.2018596849 -1.3588896038 -1.928265e-01  
## [60,] 1.4417610143 1.0346883789 2.110934e+00  
## [61,] 0.4780729543 1.0997101002 3.648478e-01  
## [62,] 1.0425521878 0.6245963734 7.160810e-01  
## [63,] 1.7650631154 -0.9024075047 -1.520320e+00  
## [64,] -0.5638234496 -0.2600823299 -5.196865e-02  
## [65,] -1.0333751774 1.2658369069 -1.232280e+00  
## [66,] -1.2374718364 0.6018930416 -6.586989e-01  
## [67,] 0.5620615050 0.3966689750 -7.647803e-02  
## [68,] -0.0988468062 0.5229032117 -2.461443e-01  
## [69,] 0.9168204238 -1.5301130550 -1.330897e+00  
## [70,] -0.9628453554 0.7092517525 -6.112676e-01  
## [71,] -1.2682403335 -0.3777682457 4.582790e-01  
## [72,] 0.9982532295 -1.5367091458 -1.301725e+00  
## [73,] 1.1110923915 1.2684127919 1.603107e+00  
## [74,] 1.4194492598 -1.4180458159 -1.905683e+00  
## [75,] -1.2143046035 0.1981078230 -2.531844e-01  
## [76,] 0.7986204403 1.3272712019 1.056311e+00  
## [77,] 0.6010793023 -0.3809815909 -2.248307e-01  
## [78,] -0.9870359665 -0.2066394793 1.725956e-01  
## [79,] -0.1188951993 0.3961204333 -4.771751e-01  
## [80,] 0.6732316087 -1.3483752798 -7.674150e-01  
## [81,] -1.3268417640 0.7728278713 -8.921264e-01  
## [82,] -0.8500313482 -0.3692518270 2.095668e-01  
## [83,] -1.0706555887 0.5714954009 -6.609703e-01  
## [84,] 0.2662534698 1.2634518692 1.384864e-01  
## [85,] 0.8708789668 -1.5359021722 -1.185312e+00  
## [86,] -1.0451601165 1.4454994125 -1.373895e+00  
## [87,] 0.1217644230 -0.0906446633 -1.973165e-01  
## [88,] 0.8223107491 -1.5273120633 -1.006809e+00  
## [89,] 0.7405126319 -1.5412341936 -9.748292e-01  
## [90,] -0.0405404142 -1.0416574408 -1.004399e-03  
## [91,] -0.1514298811 0.6222026590 -1.900078e-01  
## [92,] -1.3178484752 0.5962512395 -6.848860e-01  
## [93,] 1.3082370050 0.3759503701 8.164355e-01  
## [94,] 1.1560177979 1.2475429646 1.551206e+00  
## [95,] 1.4703503075 0.8279933024 1.878763e+00  
## [96,] -0.8743519114 0.6724124746 -6.917017e-01  
## [97,] 1.6011331815 -0.1630120038 -1.456029e-01  
## [98,] -1.0410301601 -1.4475969672 1.480008e+00  
## [99,] 0.9964423664 -1.5157307095 -1.306832e+00  
## [100,] -0.4013543416 1.2501165978 -5.809608e-01  
## [101,] -1.2124432619 -1.4733028323 1.744061e+00  
## [102,] -1.2109927315 -1.5017829342 1.777487e+00  
## [103,] 0.1355117388 1.0060789765 -8.446909e-02  
## [104,] 1.4906083685 -0.7842961865 -1.062204e+00  
## [105,] 1.2700490643 1.1533500955 2.020135e+00  
## [106,] -1.0466266124 -1.3222700007 1.312240e+00  
## [107,] 1.4705588685 0.9694352280 1.517924e+00  
## [108,] 0.1022340169 -1.1665813239 -2.103805e-01  
## [109,] 0.3449199154 0.9505008000 -6.647533e-02  
## [110,] 1.8732369378 -1.5859859974 -2.646253e+00  
## [111,] 0.8171687669 0.9045497744 5.542788e-01  
## [112,] 0.8475753109 -0.3274884654 -3.791893e-01  
## [113,] 0.3486941400 0.8439535989 1.020071e-01  
## [114,] 0.1563998195 0.3839761824 -1.470787e-01  
## [115,] 1.3688946349 -0.4864368791 -7.643583e-01  
## [116,] -1.2651941337 1.1555673862 -1.321063e+00  
## [117,] 0.2692685313 -1.1508634781 -3.342490e-01  
## [118,] -1.0086981441 1.4661484091 -1.307645e+00  
## [119,] 0.5218852982 -1.5090816596 -6.916433e-01  
## [120,] -0.2729542582 0.7866134782 -6.383953e-01  
## [121,] 0.8443270028 0.9903903481 7.012903e-01  
## [122,] -0.9961123091 -1.4598192793 1.406580e+00  
## [123,] -1.2351745547 0.5692621894 -6.371015e-01  
## [124,] -1.0183890747 -0.3431333957 2.631070e-01  
## [125,] -1.0827841258 -1.4504299233 1.508097e+00  
## [126,] -0.0505170722 0.8361648553 -1.504650e-01  
## [127,] -0.2587608880 0.5161163724 -3.318743e-01  
## [128,] 1.8506706097 -1.4687599126 -2.347615e+00  
## [129,] -1.2115729437 -1.4903908934 1.764117e+00  
## [130,] 1.6519524005 -0.4726971758 -7.033360e-01  
## [131,] -0.8551512188 0.9073652402 -7.101539e-01  
## [132,] -0.2845501349 -0.1549936709 -1.209761e-01  
## [133,] 1.5158568259 -0.6192394666 -1.064015e+00  
## [134,] -1.2419373812 -0.8942074269 1.064402e+00  
## [135,] -1.2164447677 -0.5594373773 6.297867e-01  
## [136,] 0.5863477051 -1.3547445418 -6.207312e-01  
## [137,] -0.4152694398 0.4364327780 -3.239738e-01  
## [138,] 1.5215261923 -1.5537054697 -2.094884e+00  
## [139,] 1.2175612866 -1.5713062079 -1.596662e+00  
## [140,] -1.3096288026 0.4348639954 -4.954727e-01  
## [141,] 1.5368206169 0.4555672163 1.067271e+00  
## [142,] -1.0215942496 0.4125756544 -4.747488e-01  
## [143,] 1.0444247255 0.9913166113 8.220481e-01  
## [144,] 1.2365879201 0.4335448240 4.019708e-01  
## [145,] 1.8043878030 -1.4581596522 -2.234234e+00  
## [146,] 1.2068872652 0.8686493693 1.166031e+00  
## [147,] -1.1245646930 -1.4988462950 1.651410e+00  
## [148,] -1.2616645955 -0.5068780410 6.098096e-01  
## [149,] -0.0920938487 0.0262620228 -2.524206e-01  
## [150,] -0.7297038807 0.2991364693 -3.263687e-01  
## [151,] -1.0167003175 0.3134710527 -3.543966e-01  
## [152,] -1.1147045006 1.3095613492 -1.357453e+00  
## [153,] 1.3489757586 1.0487777969 2.361335e+00  
## [154,] 1.1477689008 0.5084884930 3.952296e-01  
## [155,] -0.9942496332 -1.4979908601 1.453521e+00  
## [156,] -0.7988168859 0.7231260592 -6.514906e-01  
## [157,] -0.4785750125 0.7790235378 -5.972386e-01  
## [158,] -0.3002309199 -1.4998024033 4.402834e-01  
## [159,] -0.6736209445 0.1055309111 -2.375655e-01  
## [160,] -0.8343994890 -1.2811706478 1.013247e+00  
## [161,] -0.7800522639 -0.1822632039 5.344004e-02  
## [162,] -0.5543194538 0.7363970957 -6.522632e-01  
## [163,] -1.2666390012 0.3999523584 -4.612173e-01  
## [164,] 0.8242338007 0.1772802673 4.269729e-02  
## [165,] -0.7798117038 -1.4724254405 1.135444e+00  
## [166,] 1.7396510958 -1.5699157922 -2.404916e+00  
## [167,] -1.1861096752 0.4320234945 -5.054443e-01  
## [168,] 1.5419088685 0.5130348617 7.891454e-01  
## [169,] 1.1527341355 -0.7591144915 -8.566916e-01  
## [170,] -0.5619495300 -1.4850308673 8.232605e-01  
## [171,] 0.3796217951 0.6090759550 -1.208221e-01  
## [172,] -1.3367230622 1.7093789789 -1.908846e+00  
## [173,] -0.8019853867 0.7598397378 -6.604456e-01  
## [174,] 0.7420794114 0.8572405110 4.938004e-01  
## [175,] 0.1315463002 -1.5012966898 -1.399187e-01  
## [176,] 0.2069859823 -1.3554944000 -3.361012e-01  
## [177,] -0.7421054652 0.4792542643 -4.529189e-01  
## [178,] -1.0733900527 0.6202495952 -7.115844e-01  
## [179,] -0.8174717340 1.6093159581 -1.311070e+00  
## [180,] 1.3892825768 -1.5404105547 -1.881855e+00  
## [181,] -1.2313001579 -1.1030615075 1.309525e+00  
## [182,] -1.2609876812 -0.5201687552 6.254084e-01  
## [183,] -1.0509064868 0.9098253232 -9.535609e-01  
## [184,] -0.0002108562 0.3603542683 -2.773425e-01  
## [185,] -0.8382252662 0.6639579985 -5.435190e-01  
## [186,] -1.2213398487 -1.2986248739 1.539049e+00  
## [187,] -0.4732023236 -0.3646972331 -1.805016e-02  
## [188,] -1.1458601302 -1.0898648935 1.183640e+00  
## [189,] -0.6900369028 -1.5078747402 1.017837e+00  
## [190,] 0.3466501553 -0.3156344881 -1.605224e-01  
## [191,] 0.4179249166 0.1801278029 -4.993511e-02  
## [192,] -1.1462647167 1.1703253702 -1.254608e+00  
## [193,] 1.7394477656 -1.5769816124 -2.381820e+00  
## [194,] 1.4263569108 1.0872793273 2.383702e+00  
## [195,] 1.3056466947 -1.5832727425 -1.728861e+00  
## [196,] -0.5937223045 1.2403087577 -8.825812e-01  
## [197,] -0.2261192228 -1.3663551448 3.100476e-01  
## [198,] 0.9141356820 1.3195485590 1.268987e+00  
## [199,] 1.4251034507 1.1943229089 2.147714e+00  
## [200,] -1.2135069843 -1.4524174242 1.719549e+00  
## [201,] -0.3261666883 1.3627124103 -6.870912e-01  
## [202,] -0.7955560299 0.6953372520 -6.673859e-01  
## [203,] 1.4195200547 1.0101750610 1.680594e+00  
## [204,] -0.8332580733 0.6365718091 -6.052769e-01  
## [205,] 0.4766529161 0.0892184334 -2.886699e-01  
## [206,] -0.0194983890 0.5321919948 -2.020930e-01  
## [207,] 1.6901508370 -0.5317454535 -4.824991e-01  
## [208,] -1.3279054863 0.7937132794 -9.166387e-01  
## [209,] -0.6582975064 1.6183831760 -1.211623e+00  
## [210,] 1.1465586877 0.9702853236 1.419887e+00  
## [211,] -1.2197011825 -0.4969622836 5.584199e-01  
## [212,] -1.2222101670 -1.2815368128 1.518993e+00  
## [213,] 1.3960088517 -1.5564120922 -2.018453e+00  
## [214,] 0.0046258321 -1.5122326975 -5.931055e-03  
## [215,] -0.4456578223 0.8635142305 -5.982097e-01  
## [216,] 1.0509962605 -0.3368408865 -3.199584e-01  
## [217,] 1.7518486846 -0.8025626090 -1.423828e+00  
## [218,] 1.4386156218 -0.4496961860 -5.362200e-01  
## [219,] 1.2795419520 0.4267064796 3.666355e-01  
## [220,] -1.0408351397 0.7427427931 -7.985100e-01  
## [221,] -1.1845001033 0.4039848983 -4.773080e-01  
## [222,] 1.7995822596 -1.4368260840 -2.161519e+00  
## [223,] -1.2124432619 -1.4733028323 1.744061e+00  
## [224,] -1.1428161546 -0.3514818981 3.250552e-01  
## [225,] -0.7326414289 -1.5174031322 1.085106e+00  
## [226,] -0.3048915885 -0.4364556832 4.431022e-02  
## [227,] -0.1045185270 0.5916760492 -2.698472e-01  
## [228,] -1.2801346833 -0.1442314100 1.841868e-01  
## [229,] -0.1725292578 0.9038681149 -3.430637e-01  
## [230,] 0.5313123175 0.5886996056 2.493084e-01  
## [231,] 0.7303823389 1.2729758377 8.332995e-01  
## [232,] 0.6223093288 0.8314803145 4.770844e-01  
## [233,] -1.3369954772 0.9721885846 -1.126108e+00  
## [234,] 1.8633228474 -1.5766668466 -2.409075e+00  
## [235,] -0.0117287593 -1.3344201256 -2.278497e-02  
## [236,] -1.2368116566 -0.1803851222 2.128040e-01  
## [237,] -0.8437182103 -1.1380042653 8.984999e-01  
## [238,] -0.6135481433 0.4145507199 -4.398955e-01  
## [239,] -0.9568175726 1.2608769111 -1.079074e+00  
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## [1325,] -0.3532719354 -0.2908153303 -1.264482e-01  
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## [1590,] 1.4074050852 -1.3756316658 -1.695663e+00  
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## [1592,] -1.2672599617 0.4264011363 -5.113449e-01  
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## [2381,] -1.1447623456 -1.1193242325 1.228798e+00  
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## [2651,] -1.2252919053 1.1337557408 -1.238563e+00  
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## [2723,] -1.1949829359 1.3236962649 -1.435908e+00  
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## [6869,] -0.5262581812 0.8507500048 -6.006221e-01  
## [6870,] 1.8449612862 -1.4130941958 -2.337399e+00  
## [6871,] 0.0877354782 -0.9901176391 -2.726318e-01  
## [6872,] 1.4398351771 0.8108502533 1.647393e+00  
## [6873,] -0.0643096460 1.3869459349 -9.517291e-02  
## [6874,] -1.1555708443 -0.9109456196 9.893715e-01  
## [6875,] -0.8622253223 0.4806956696 -5.287820e-01  
## [6876,] -1.0876138371 1.5382444129 -1.567541e+00  
## [6877,] 0.2502653522 -1.3744323263 -3.495893e-01  
## [6878,] -1.2475058181 0.8080875016 -9.129962e-01  
## [6879,] -1.2650330532 1.1560145522 -1.326421e+00  
## [6880,] 0.8729497281 -0.2422656020 -1.837382e-01  
## [6881,] -1.1010288807 -1.1456700618 1.221986e+00  
## [6882,] 0.5127832742 1.0396471547 6.799190e-01  
## [6883,] -1.0730560804 -0.1477642776 1.326554e-01  
## [6884,] -1.2990982317 1.7570944638 -1.941163e+00  
## [6885,] 0.9838305909 -0.7106729283 -8.448890e-01  
## [6886,] -1.2583767264 -0.5714329386 6.855749e-01  
## [6887,] 1.1681070526 0.3178961055 3.394836e-01  
## [6888,] -0.5196190952 1.3542283529 -9.635329e-01  
## [6889,] -1.2606008731 -0.5277634490 6.343219e-01  
## [6890,] 0.6591196372 0.8335922054 5.807502e-01  
## [6891,] -0.1049536690 0.1834365126 -3.092836e-01  
## [6892,] 0.9649096502 -0.0336528922 1.045709e-01  
## [6893,] 0.0995691433 0.1446360732 -2.050304e-01  
## [6894,] 1.4166716447 -0.8197372070 -1.182797e+00  
## [6895,] -0.0288574430 -0.6650400085 -1.777699e-01  
## [6896,] -0.1633763661 -1.5479738527 1.936793e-01  
## [6897,] 0.3450781847 0.1498797678 -2.122253e-01  
## [6898,] -0.9428255516 -0.1753160947 8.359146e-03  
## [6899,] -1.2769435163 -0.2068876342 2.577237e-01  
## [6900,] 1.3387236992 1.2998764328 1.999953e+00  
## [6901,] 1.2199932678 -1.5428837034 -1.731995e+00  
## [6902,] -1.0138520368 0.9342861847 -9.124616e-01  
## [6903,] 1.3214706397 1.1201741917 1.828401e+00  
## [6904,] 0.3084387383 1.2241396930 2.049448e-01  
## [6905,] 1.5013165122 0.7817623169 1.180967e+00  
## [6906,] 0.6572187946 -1.5463057713 -9.257704e-01  
## [6907,] 1.5596208602 0.3454918567 7.445189e-01  
## [6908,] -0.0921333371 1.3621045775 -3.779465e-01  
## [6909,] 0.8019379623 0.6654477273 4.788072e-01  
## [6910,] -0.0819729127 -1.5221445916 1.421579e-01  
## [6911,] 0.8429062997 0.3652571763 1.561502e-01  
## [6912,] -1.2349246279 0.5721231189 -6.508586e-01  
## [6913,] 0.8289240854 0.1989691826 -1.350777e-01  
## [6914,] -1.3075013579 0.3930931792 -4.464481e-01  
## [6915,] -0.6020520374 -1.5439587312 9.488738e-01  
## [6916,] 0.9514705501 0.1630888169 -3.647394e-02  
## [6917,] -1.1313833644 0.1804738293 -2.354042e-01  
## [6918,] 0.6907513787 -0.3690393669 -4.588031e-01  
## [6919,] -0.1695229350 -1.5065246813 2.511054e-01  
## [6920,] -1.2360725181 0.5992762407 -6.889055e-01  
## [6921,] 0.9255980645 0.9443370473 8.338456e-01  
## [6922,] -0.9034474874 -0.1270678044 -7.138095e-02  
## [6923,] -1.3079848681 0.4025865465 -4.575900e-01  
## [6924,] 1.4238099702 0.9614046201 1.690364e+00  
## [6925,] 1.1508267903 1.2222968992 1.751080e+00  
## [6926,] -1.1639793297 0.7726296039 -8.663444e-01  
## [6927,] -0.0865859712 -0.9610506506 -6.974323e-02  
## [6928,] 1.4239328943 -0.0357477950 -1.137535e-01  
## [6929,] 0.0283099003 0.8223348630 -3.462432e-02  
## [6930,] 1.7019714804 -0.4902623646 -8.974260e-01  
## [6931,] 1.2572983547 -0.6000294975 -7.752534e-01  
## [6932,] 1.6939240334 -1.5707754965 -2.277351e+00  
## [6933,] -1.2323638802 -1.0821760994 1.285012e+00  
## [6934,] -1.1232795898 -1.5169500181 1.663114e+00  
## [6935,] 1.4113016476 0.7948739667 1.361005e+00  
## [6936,] 0.7322946492 -0.6979735923 -7.243570e-01  
## [6937,] 1.3213038844 0.9077207180 1.290020e+00  
## [6938,] 0.4710561931 1.2189271078 2.497640e-01  
## [6939,] 0.0815749053 -0.9595429555 -1.875167e-01  
## [6940,] -1.0995446718 -0.3812773313 3.390528e-01  
## [6941,] 0.8693438738 -1.5509992661 -1.107032e+00  
## [6942,] 0.4923287884 1.3166014876 5.217483e-01  
## [6943,] -0.8440658601 0.7669359944 -6.487197e-01  
## [6944,] -0.6045345671 -1.5075078908 9.225484e-01  
## [6945,] -0.7936851131 -0.5729620680 3.168361e-01  
## [6946,] 1.4489791126 -0.1981005371 -3.641999e-01  
## [6947,] -1.0144074493 0.9652511714 -9.756586e-01  
## [6948,] -0.6903037106 -1.5042811651 1.015822e+00  
## [6949,] 0.1574315486 0.8112088484 -1.710416e-01  
## [6950,] 0.2980583979 0.9941684924 -2.096135e-02  
## [6951,] -0.3705664894 0.4561207277 -4.719238e-01  
## [6952,] -0.3279252326 1.3296580274 -5.578225e-01  
## [6953,] -1.0505514999 1.5735627813 -1.553927e+00  
## [6954,] 0.7287381862 -0.3636614656 -3.942670e-01  
## [6955,] 1.0604846751 0.7390039422 1.033820e+00  
## [6956,] 0.8213827526 -0.8025099853 -6.503403e-01  
## [6957,] -0.3713327260 0.9433758359 -5.994268e-01  
## [6958,] -0.4548408451 0.4223217221 -3.249177e-01  
## [6959,] -1.2130234741 -1.4619107915 1.730691e+00  
## [6960,] -1.1923294588 0.5642885565 -6.742584e-01  
## [6961,] -0.6855344397 1.3676228375 -9.422232e-01  
## [6962,] 0.7844813189 1.3508669584 1.368676e+00  
## [6963,] 0.7489390902 0.8394421860 3.582101e-01  
## [6964,] 0.6482327244 1.0135805473 4.147121e-01  
## [6965,] -0.3419304084 0.0566816483 -2.210770e-01  
## [6966,] 1.2124319673 0.0768673670 -2.200384e-01  
## [6967,] -0.3003126736 -0.4627526263 -9.978365e-03  
## [6968,] 1.4952532737 0.2651001239 4.853350e-01  
## [6969,] -1.2201794244 -1.3214089554 1.565790e+00  
## [6970,] -0.6117817213 -0.8171976023 4.552429e-01  
## [6971,] -1.0104274886 0.1965231030 -2.254592e-01  
## [6972,] 1.6112149595 0.0682974976 8.478865e-02  
## [6973,] -0.4411441067 0.7200116851 -3.563187e-01  
## [6974,] 0.0734199297 -1.3480377480 -7.364397e-02  
## [6975,] 0.2798843826 -0.8465563299 -3.012939e-01  
## [6976,] -0.1837963557 1.0546284569 -4.256766e-01  
## [6977,] -0.0273103602 1.4979385517 -2.700249e-01  
## [6978,] -0.3997019312 0.2412653750 -2.428294e-01  
## [6979,] -0.5420557775 0.4930499143 -3.632314e-01  
## [6980,] 0.0595104158 0.9779092765 -1.690625e-01  
## [6981,] -1.0767243792 1.3214220567 -1.309028e+00  
## [6982,] 1.4408838830 0.8527697069 1.514510e+00  
## [6983,] 0.6481300642 0.6669434194 2.117673e-01  
## [6984,] 0.5966683930 -1.3802719397 -8.278755e-01  
## [6985,] 0.9284596256 0.6579396576 4.016408e-01  
## [6986,] 0.3578646642 0.0228413936 -2.291481e-01  
## [6987,] -0.2533521974 0.4466133523 -2.994232e-01  
## [6988,] -0.8365199730 0.7228700221 -7.363524e-01  
## [6989,] -1.1564283596 -0.9003233837 9.852241e-01  
## [6990,] 1.6508174088 -1.5448566549 -2.285943e+00  
## [6991,] -1.1847341092 -0.3526029717 3.531545e-01  
## [6992,] 1.1352378810 1.0667185093 1.475177e+00  
## [6993,] -0.1774983245 -0.9699345680 1.891461e-01  
## [6994,] 0.1318316565 1.0001971593 2.703920e-02  
## [6995,] -0.2571150012 -1.5386981781 4.812335e-01  
## [6996,] 0.1883601502 1.3210490456 -1.118554e-01  
## [6997,] 1.6550185095 -0.2977045443 -1.470479e-01  
## [6998,] -1.2374939965 0.5909959125 -6.307386e-01  
## [6999,] -0.4322810931 0.6492623984 -4.115332e-01  
## [7000,] -1.3173649650 0.5867578722 -6.737440e-01  
## [7001,] -1.1661957745 0.0322096242 -2.439356e-02  
## [7002,] 1.1525846077 0.4720132827 3.602887e-01  
## [7003,] 0.2208120566 0.9300357345 1.752366e-02  
## [7004,] 0.2774863953 0.7835815033 -2.768055e-02  
## [7005,] 0.0070404822 0.7116665690 -2.740464e-01  
## [7006,] -1.2699809701 -0.3435921234 4.181679e-01  
## [7007,] 0.9564200748 -1.5202578328 -1.320003e+00  
## [7008,] -1.3100156107 0.4424586892 -5.043862e-01  
## [7009,] 0.4347843605 -1.5290561514 -5.050731e-01  
## [7010,] -0.7331587641 -1.5253406432 1.118646e+00  
## [7011,] -0.8299583468 -0.0343569905 -8.290716e-02  
## [7012,] 1.4592061183 0.9725934769 1.808396e+00  
## [7013,] 1.1074846538 1.0290700287 1.222728e+00  
## [7014,] 0.4192389276 0.6211468292 -1.159545e-01  
## [7015,] -0.6702397929 1.2063719161 -9.391179e-01  
## [7016,] -0.9198235087 -0.5947297438 4.574803e-01  
## [7017,] -0.8197105748 0.4596351195 -5.168391e-01  
## [7018,] 1.4909360454 -0.2228767265 -3.282598e-01  
## [7019,] -1.0471118020 -0.5741800144 5.220320e-01  
## [7020,] -1.1687257773 -1.4801889222 1.688778e+00  
## [7021,] 0.9651576169 -0.2774619154 -3.659341e-01  
## [7022,] -1.3198792178 0.6361233821 -7.316822e-01  
## [7023,] 0.2237684250 0.1458508315 -2.430682e-01  
## [7024,] 1.2687760682 0.9659982413 1.447767e+00  
## [7025,] -0.5875588994 0.6055022397 -5.262364e-01  
## [7026,] -0.8321997062 -0.0037380183 -1.009198e-01  
## [7027,] 1.8676339423 -1.5256908652 -2.650463e+00  
## [7028,] -0.3982583738 0.7866658993 -5.745006e-01  
## [7029,] 1.4699167915 0.9264774711 1.642728e+00  
## [7030,] -0.8014408239 -1.1423867609 8.747801e-01  
## [7031,] -1.1941062912 0.5615231181 -6.206066e-01  
## [7032,] 1.2211564715 1.0725751442 1.355154e+00

# Play with FA utilities  
  
fa.parallel(tablechurnFA) # See factor recommendation

## Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate =  
## rotate, : A loading greater than abs(1) was detected. Examine the loadings  
## carefully.

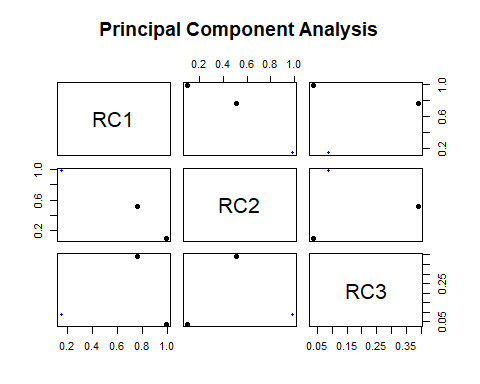
## Warning in fa.stats(r = r, f = f, phi = phi, n.obs = n.obs, np.obs  
## = np.obs, : The estimated weights for the factor scores are probably  
## incorrect. Try a different factor extraction method.

## Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate =  
## rotate, : An ultra-Heywood case was detected. Examine the results carefully

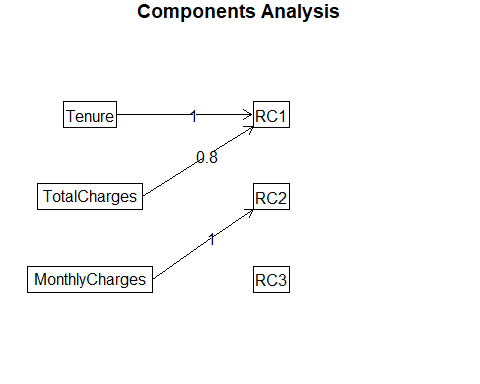


## Parallel analysis suggests that the number of factors = 2 and the number of components = 1

fa.plot(fit.pc) # See Correlations within Factors



fa.diagram(fit.pc) # Visualize the relationship

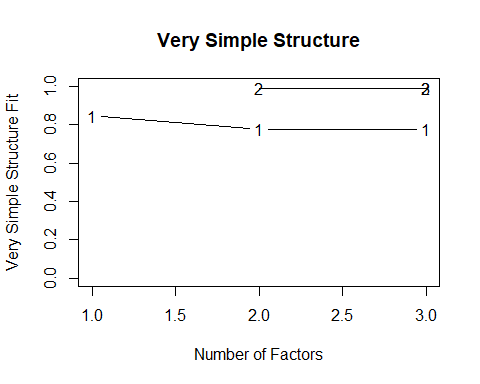


vss(tablechurnFA) # See Factor recommendations for a simple structure

## Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate =  
## rotate, : A loading greater than abs(1) was detected. Examine the loadings  
## carefully.

## Warning in fa.stats(r = r, f = f, phi = phi, n.obs = n.obs, np.obs  
## = np.obs, : The estimated weights for the factor scores are probably  
## incorrect. Try a different factor extraction method.

## Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate =  
## rotate, : An ultra-Heywood case was detected. Examine the results carefully



##   
## Very Simple Structure  
## Call: vss(x = tablechurnFA)  
## VSS complexity 1 achieves a maximimum of 0.85 with 1 factors  
## VSS complexity 2 achieves a maximimum of 0.99 with 2 factors  
##   
## The Velicer MAP achieves a minimum of NA with 1 factors   
## BIC achieves a minimum of NA with factors  
## Sample Size adjusted BIC achieves a minimum of NA with factors  
##   
## Statistics by number of factors   
## vss1 vss2 map dof chisq prob sqresid fit RMSEA BIC SABIC complex  
## 1 0.85 0.00 0.34 0 4.5e+03 NA 0.816 0.85 NA NA NA 1.0  
## 2 0.78 0.99 1.00 -2 3.1e-12 NA 0.058 0.99 NA NA NA 1.3  
## 3 0.78 0.99 NA -3 3.1e-12 NA 0.058 0.99 NA NA NA 1.3  
## eChisq SRMR eCRMS eBIC  
## 1 4.6e+02 1.0e-01 NA NA  
## 2 3.0e-14 8.4e-10 NA NA  
## 3 3.0e-14 8.4e-10 NA NA

##Looking at the output obtained from this step we infer that we just need 2 factors in our case  
##i.e. RC1 and RC2 since most of the variance is explained by this these factors itself.