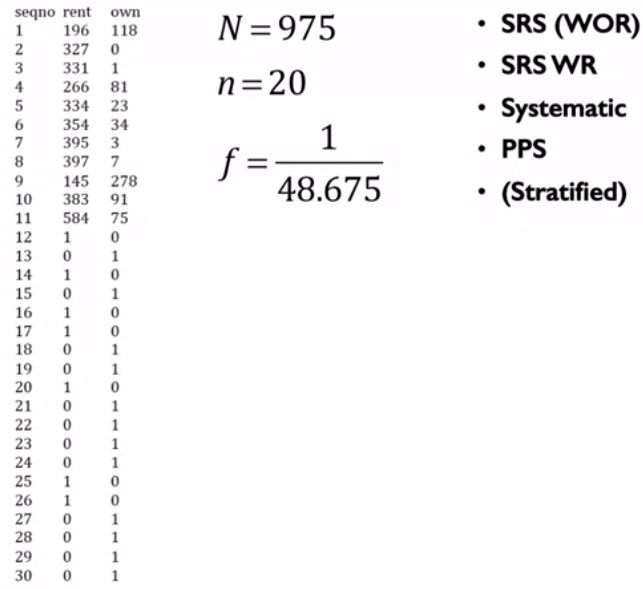
**W6 Pulling it All Together**

**6.1 What about using statistical software to select samples?**

Frame

e.g. Census Blocks



Using R

• Change Directory

setwd(“M:\\Coursera sampling methods”)

• Open data file

frame <- read.table(file = “frame.txt”, header=TRUE, sep = “\t”)

• View data in a spreadsheet

edit(frame)

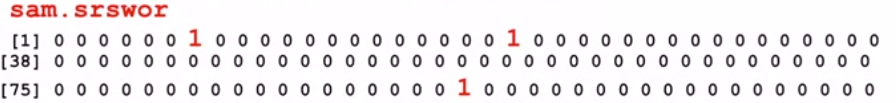
## library(sampling)

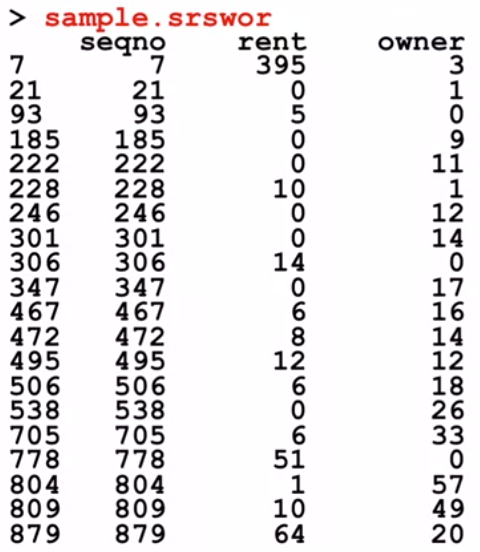
## simple random sample ##

## without replacement ##

sam.srswor <- srswor(n=20, N=975)

sample.srswor <- frame[which(x = (sam.srswor == 1)), ]



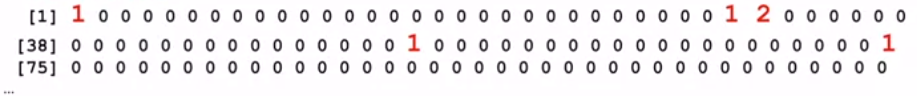


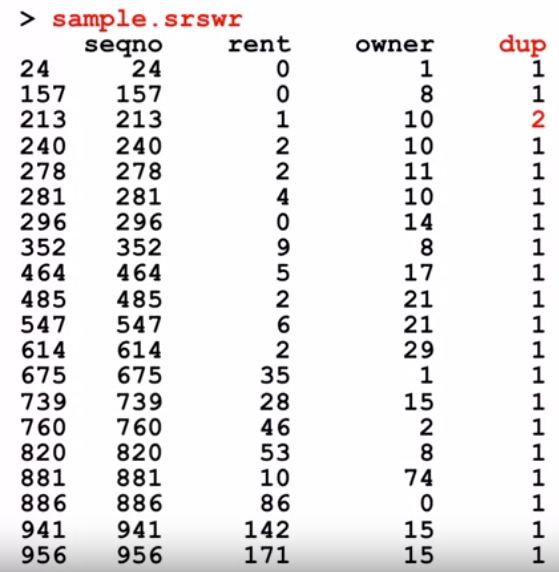
## Simple Random sampling with Replacement ##

sam.srswr <- srswr(n=20, N=975)

sample.srswr <- frame[which(x=(sam.srswr >= 1)), ]

sam.srswr





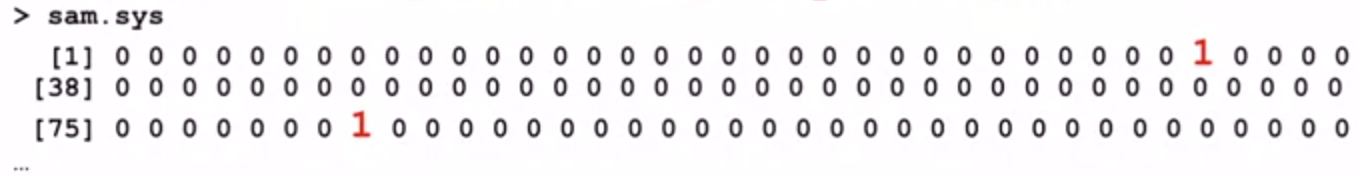
## Systematic Samples ##

## Random start – equal size ##

prob.sys <- rep(x=20/975, times=975)

sam.sys <- UPsystematic(pik=prob.sys)

sample.sys <- frame[which(x = (sam.sys == 1)), ]



• Interval = 975/20 = 48.75

• Gaps of 48 and 49

