**15.7 R 语言应用**

**# 陈文贤 着 《大话统计学》 清华大学出版社 2022年**

if(!require(IndexNumR)){install.packages("remotes");

remotes::install\_github("grahamjwhite/IndexNumR")} ; library(IndexNumR)

index1 <- read.csv("C:/大话统计学 网络资源/StatData/indexdata1.csv", head=TRUE)

# index1

options(digits = 4)

methods <- c("dutot", "carli", "jevons", "harmonic", "laspeyres", "paasche", "fisher")

# 物价指数

prices <- lapply(methods, function(x) {priceIndex(index1, pvar = "prices", qvar =

"quantities", pervar = "time", prodID = "prodID", indexMethod = x, output = "chained")})

as.data.frame(prices, col.names = methods)

# 物量指数

quantity <- lapply(methods, function(x) {quantityIndex(index1, pvar = "prices", qvar =

"quantities", pervar = "time", prodID = "prodID", indexMethod = x, output = "chained")})

as.data.frame(quantity, col.names = methods)