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knitr::opts\_chunk$set(echo = TRUE)

Creating Matrix and giving names to rows amd columns

rown<-c("FQ","SQ","TQ")  
 COLN<-c("KERICH0","NAIROBI","KISUMU")  
 I<-matrix(c(0,2,7,3,6,-10,-5,8,20),byrow = TRUE,nrow = 3,dimnames =list (rown,COLN))  
 I

## KERICH0 NAIROBI KISUMU  
## FQ 0 2 7  
## SQ 3 6 -10  
## TQ -5 8 20

ic<-as.data.frame(I)  
ic

## KERICH0 NAIROBI KISUMU  
## FQ 0 2 7  
## SQ 3 6 -10  
## TQ -5 8 20

County with loses

u<-which(colSums(ic)<0)  
u

## KERICH0   
## 1

Counties that made profit

u<-which(colSums(ic)>0)  
u

## NAIROBI KISUMU   
## 2 3

counties whuch made neither profit nor loss

u<-which(colSums(ic)==0)  
u

## named integer(0)

Total income for each quarter

v<-rowSums(ic,na.rm = TRUE)  
v

## FQ SQ TQ   
## 9 -1 23

Toal income for each County

y<-colSums(ic,na.rm = TRUE)  
y

## KERICH0 NAIROBI KISUMU   
## -2 16 17

Replace all negative by Zero

pmax(I,0)

## KERICH0 NAIROBI KISUMU  
## FQ 0 2 7  
## SQ 3 6 0  
## TQ 0 8 20

County with highest income

which.max(colSums(ic))

## KISUMU   
## 3

Worst quarter

which.min(rowSums(ic))

## SQ   
## 2

Least performing county in income generation

which.min(colSums(ic))

## KERICH0   
## 1