1. Define matrix mymat by replicating the sequence 1:5 for 4 times and transforming into a matrix, sum

over rows and columns.

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| --- |
| > rep.row<-function(x,n){  + matrix(rep(x,each=n),nrow=n)  + }  > rep.col<-function(x,n){  + matrix(rep(x,each=n), ncol=n, byrow=TRUE)  + }  > mymat<-rep.row(1:5,4)  >  > mymat  [,1] [,2] [,3] [,4] [,5]  [1,] 1 2 3 4 5  [2,] 1 2 3 4 5  [3,] 1 2 3 4 5  [4,] 1 2 3 4 5  > colSums (mymat, na.rm = FALSE, dims = 1)  [1] 4 8 12 16 20  > rowSums (mymat, na.rm = FALSE, dims = 1)  [1] 15 15 15 15 |
|  |
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