1. Test whether two vectors are exactly equal (element by element)

vc1=c(rownames(mtcars[1:15,]))

vc2=c(rownames(mtcars[11:25,]))

vc1

[1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout" "Valiant"

[7] "Duster 360" "Merc 240D" "Merc 230" "Merc 280" "Merc 280C" "Merc 450SE"

[13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"

vc2

[1] "Merc 280C" "Merc 450SE" "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood" "Lincoln Continental"

[7] "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla" "Toyota Corona" "Dodge Challenger"

[13] "AMC Javelin" "Camaro Z28" "Pontiac Firebird"

d=nchar(vc1)

d

[1] 9 13 10 14 17 7 10 9 8 8 9 10 10 11 18

e=nchar(vc2)

e

[1] 9 10 10 11 18 19 17 8 11 14 13 16 11 10 16

d==e

[1] TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE