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

vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[11:25,]))

sol= isTRUE(all.equal(vec1,vec2)) # returns true/false

identical(vec1,vec2) # returns true/false

all.equal(vec1,vec2) # returns number of differences

2. Sort the character vector in ascending order and descending order.

vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[11:25,]))

sol= sort(vec1) # vec1 in ascending order

sort(vec1, decreasing = TRUE) # vec1 in descending order

sort(vec2) # vec2 in ascending order

sort(vec2, decreasing = TRUE) # vec2 in descending order

3. What is the major difference between str() and paste() show an example.

Sol= str(mtcars$mpg) # structure gives the class of variable, number of values/ elements

paste(mtcars$mpg) # just prints / shows the actual elemnts

4. Introduce a separator when concatenating the strings.

Sol= paste(rownames(mtcars[1,]), rownames(mtcars[10,]), sep = " ")

paste(rownames(mtcars[1,]), rownames(mtcars[10,]), sep = ",")