**DATA ANALYTIC ASSIGNMENT 5.3**

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

> vec1<-c(rownames(mtcars[1:15,]))

> vec2<-c(rownames(mtcars[11:25,]))

> identical(vec1,vec2)

[1] FALSE

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

#ascending order

> v22<-sort(vec1,decreasing = FALSE)

> v22

[1] "Cadillac Fleetwood" "Datsun 710" "Duster 360" "Hornet 4 Drive"

[5] "Hornet Sportabout" "Mazda RX4" "Mazda RX4 Wag" "Merc 230"

[9] "Merc 240D" "Merc 280" "Merc 280C" "Merc 450SE"

[13] "Merc 450SL" "Merc 450SLC" "Valiant"

#descending order

> v23<-sort(vec1,decreasing = TRUE)

> v23

[1] "Valiant" "Merc 450SLC" "Merc 450SL" "Merc 450SE"

[5] "Merc 280C" "Merc 280" "Merc 240D" "Merc 230"

[9] "Mazda RX4 Wag" "Mazda RX4" "Hornet Sportabout" "Hornet 4 Drive"

[13] "Duster 360" "Datsun 710" "Cadillac Fleetwood"

#ascending order

> v24<-sort(vec2,decreasing = FALSE)

> v24

[1] "AMC Javelin" "Cadillac Fleetwood" "Camaro Z28" "Chrysler Imperial"

[5] "Dodge Challenger" "Fiat 128" "Honda Civic" "Lincoln Continental"

[9] "Merc 280C" "Merc 450SE" "Merc 450SL" "Merc 450SLC"

[13] "Pontiac Firebird" "Toyota Corolla" "Toyota Corona"

#descending order

> v25<-sort(vec2 , decreasing = TRUE)

> v25

[1] "Toyota Corona" "Toyota Corolla" "Pontiac Firebird" "Merc 450SLC"

[5] "Merc 450SL" "Merc 450SE" "Merc 280C" "Lincoln Continental"

[9] "Honda Civic" "Fiat 128" "Dodge Challenger" "Chrysler Imperial"

[13] "Camaro Z28" "Cadillac Fleetwood" "AMC Javelin"

3. What is difference between str() and paste() show with example .

|  |
| --- |
| > str(vec1)  chr [1:15] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout" ... |
|  |
| |  | | --- | | > #returns the class , value and number of the elements | |

> paste(vec1)

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

[5] "Hornet Sportabout" "Valiant" "Duster 360" "Merc 240D"

[9] "Merc 230" "Merc 280" "Merc 280C" "Merc 450SE"

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

> #4. Introduce a separator when concatenating the strings.

> x<-c("a","b","c")

> y<-c("A","B","C")

> paste(x,y)

[1] "a A" "b B" "c C"

> paste(x,y,sep = ",")

[1] "a,A" "b,B" "c,C"