**Assignment 3.2**

1)

vec3<- c(rownames(mtcars[1:15,]))

vec3

[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"

vec4<-c(rownames(mtcars[10:32,]))

|  |
| --- |
| vec4  [1] "Merc 280" "Merc 280C" "Merc 450SE" "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"  [7] "Lincoln Continental" "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla" "Toyota Corona"  [13] "Dodge Challenger" "AMC Javelin" "Camaro Z28" "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"  [19] "Lotus Europa" "Ford Pantera L" "Ferrari Dino" "Maserati Bora" "Volvo 142E" |
|  |
| |  | | --- | | > | |

union(vec3,vec4)

|  |
| --- |
| "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout"  [6] "Valiant" "Duster 360" "Merc 240D" "Merc 230" "Merc 280"  [11] "Merc 280C" "Merc 450SE" "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"  [16] "Lincoln Continental" "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla"  [21] "Toyota Corona" "Dodge Challenger" "AMC Javelin" "Camaro Z28" "Pontiac Firebird"  [26] "Fiat X1-9" "Porsche 914-2" "Lotus Europa" "Ford Pantera L" "Ferrari Dino"  [31] "Maserati Bora" "Volvo 142E" |
|  |
| |  | | --- | | > | |

2)

intersect(vec3,vec4)

> intersect(vec3,vec4)

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

3)

setdiff(vec3,vec4)

setdiff(vec3,vec4)

[1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout" "Valiant" "Duster 360"

[8] "Merc 240D" "Merc 230"

4)

setdiff(vec4,vec3)

setdiff(vec4,vec3)

[1] "Lincoln Continental" "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla" "Toyota Corona"

[7] "Dodge Challenger" "AMC Javelin" "Camaro Z28" "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"

[13] "Lotus Europa" "Ford Pantera L" "Ferrari Dino" "Maserati Bora" "Volvo 142E"