```
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[10:32,]))
> #. obtain the elements of the union between two character
> #vectors.
> unionvec<- union(vec1,vec2)
> unionvec
 [1] "Mazda RX4"           "Mazda RX4 Wag"       "Datsun 710"          "Horne
t 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"  "Linco
ln Continental"
[17] "Chrysler Imperial"   "Fiat 128"            "Honda Civic"         "Toyot
a Corolla"
[21] "Toyota Corona"       "Dodge Challenger"    "AMC Javelin"         "Camar
o Z28"
[25] "Pontiac Firebird"    "Fiat X1-9"           "Porsche 914-2"       "Lotus
Europa"
[29] "Ford Pantera L"      "Ferrari Dino"        "Maserati Bora"       "Volvo
142E"
> #Get those elements that are common to both vectors
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[10:32,]))
> intersectvec<- intersect(vec1,vec2)
> intersectvec
[1] "Merc 280"           "Merc 280C"          "Merc 450SE"         "Merc 450S
L"          "Merc 450SLC"
[6] "Cadillac Fleetwood"
> #Get the difference of the elements between two
> #character vectors.
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[10:32,]))
> # below returns elements in vec1 not in vec2
> setdiff(vec1,vec2)
[1] "Mazda RX4"         "Mazda RX4 Wag"     "Datsun 710"        "Hornet 4 Dri
ve"    "Hornet Sportabout"
[6] "Valiant"           "Duster 360"        "Merc 240D"         "Merc 230"
> #below returns elements in vec2 not in vec1
> setdiff(vec2,vec1)
 [1] "Lincoln Continental" "Chrysler Imperial"   "Fiat 128"            "Honda
Civic"
 [5] "Toyota Corolla"      "Toyota Corona"       "Dodge Challenger"    "AMC J
avelin"
 [9] "Camaro Z28"          "Pontiac Firebird"    "Fiat X1-9"           "Porsc
he 914-2"
[13] "Lotus Europa"        "Ford Pantera L"      "Ferrari Dino"        "Maser
ati Bora"
[17] "Volvo 142E"
>
> #4 Test the equality of two character vectors
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[11:25,]))
> #To test if two vectors contain the same elements regardless of order
> setequal(vec1,vec2)
[1] FALSE
> #setequal out is false which means vec1 and vec2 are not equal.
```