1. obtain the elements of the union between two character vectors.

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))
```

```
vec1 = c(rownames(mtcars[1:15,]))
 vec1
[1] "Mazda RX4"
                           "Mazda RX4 Wag"
                                                  "Datsun 710"
    "Hornet 4 Drive"
                           "Hornet Sportabout"
                                                  "Valiant"
 [4]
    "Duster 360"
                           "Merc 240D"
                                                  "Merc 230"
    "Merc 280"
                           "Merc 280C"
                                                  "Merc 450SE"
101
[13] "Merc 450SL"
                           "Merc 450SLC"
                                                  "Cadillac Fleetwood"
 vec2 = c(rownames(mtcars[10:32,]))
 vec2
    "Merc 280"
[1]
                            "Merc 280C"
                                                    "Merc 450<u>SE</u>"
[4]
[7]
    "Merc 450SL"
                            "Merc 450SLC"
                                                    "Cadillac Fleetwood"
    "Lincoln Continental" "Chrysler Imperial"
                                                    "Fiat 128"
    "Honda Civic"
                            "Toyota Corolla"
                                                    "Toyota Corona"
Γ101
    "Dodge Challenger"
                            "AMC Javelin"
                                                    "Camaro Z28"
Г137
                            "Fiat X1-9"
    "Pontiac Firebird"
                                                    "Porsche 914-2"
Γ167
    "Lotus Europa"
                            "Ford Pantera L"
                                                    "Ferrari Dino"
Γ197
[22] "Maserati Bora"
                            "Volvo 142E"
 union(vec1, vec2)
[1]
[4]
[7]
    "Mazda RX4"
                            "Mazda RX4 Wag"
                                                    "Datsun 710"
    "Hornet 4 Drive"
                            "Hornet Sportabout"
                                                    "Valiant"
    "Duster 360"
                            "Merc 240D"
                                                    "Merc 230"
    "Merc 280"
                            "Merc 280C"
                                                    "Merc 450SE"
Γ101
    "Merc 450SL"
                            "Merc 450SLC"
                                                    "Cadillac Fleetwood"
Г137
    "Lincoln Continental"
                            "Chrysler Imperial"
                                                    "Fiat 128"
[16]
    "Honda Civic"
                            "Toyota Corolla"
                                                    "Toyota Corona"
[19]
    "Dodge Challenger"
                            "AMC Javelin"
                                                    "Camaro Z28"
[22]
    "Pontiac Firebird"
                            "Fiat X1-9"
                                                    "Porsche 914-2"
[25]
    "Lotus Europa"
                            "Ford Pantera L"
                                                    "Ferrari Dino"
[28]
    "Maserati Bora"
                            "Volvo 142E"
```

2. Get those elements that are common to both vectors

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))
```

3. Get the difference of the elements between two character vectors.

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))
```

4. Test the equality of two character vectors

vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[11:25,]))

```
vec3 = c(rownames(mtcars[1:15,]))
> vec3
[1] "Mazda RX4"
                              "Mazda RX4 Wag"
                                                      "Datsun 710"
                             "Hornet Sportabout"
"Merc 240D"
 [4] "Hornet 4 Drive"
                                                      "Valiant"
 [7] "Duster 360"
                                                      "Merc 230"
                                                      "Merc 450SE"
"Cadillac Fleetwood"
[10] "Merc 280"
                             "Merc 280C"
[13] "Merc 450SL"
                             "Merc 450SLC"
> vec4 = c(rownames(mtcars[11:25,]))
> vec4
 [1] "Merc 280C"
                               "Merc 450SE"
                                                        "Merc 450SL"
 [4] "Merc 450SLC"
                              "Cadillac Fleetwood"
"Fiat 128"
                                                        "Lincoln Continental"
 [7] "Chrysler Imperial"
                                                        "Honda Civic"
[10] "Toyota Corolla"
                               "Toyota Corona"
                                                        "Dodge Challenger"
[13] "AMC Javelin"
> setequal(vec3, vec4)
                               "Camaro Z28"
                                                        "Pontiac Firebird"
[1] FALSE
```