

```
shoe_size <- c(6.5, 9.0, 8.5, 8.5, 10.5, 7.0, 9.5, 9.0, 13.0, 7.5, 10.5, 8.5, 12.0, 10.5, 13.0, 11.5, 8.5, 5.0, 10.0,  
6.5, 7.5, 8.5, 10.5, 8.5 ,10.5, 11.0, 9.0, 13.0) height <- c(66.0, 68.0, 64.5, 65.0, 70.0, 64.0, 70.0, 71.0, 72.0,  
64.0, 74.5, 67.0, 71.0, 71.0, 77.0, 72.0, 59.0, 62.0, 72.0, 66.0, 64.0, 67.0, 73.0, 69.0, 72.0, 70.0,69.0,70.0) gender <-  
c("F","F","F","F","M","F","F","F","M","F","M","F","M","M","M","M","F","F","M","F","F","M","M","F","M","M","M","")
```

```
data <- data.frame(ShoeSize = shoe_size, Height = height, Gender = gender)
```

#b. Create a subset by males and females with their corresponding shoe size and height. #What its result?
Show the R scripts.

males females

mean_shoe_size mean_height

```
#2. Create a character vector of months months <- c( "March", "April", "January", "November", "January",
"September", "October", "September", "November", "August", "January", "November", "November", "Febru-
ary", "May", "August", "July", "December", "August", "August", "September", "November", "February",
"April" )
```

```
print(factor_months_vector)
```

#3 summary

```
# the factor
summary(factor_months_vector)
```

```
direction_vector <- c("north", "east", "west")
frequency_vector <- c(1, 4, 3)
```

```
#6 selected  number <- sample(1:50, 1)
```

```
if (selected_number < 1 || selected_number > 50) {
```

```
    cat("The number selected is beyond the range of 1 to 50\n")
} else {

    if (selected_number == 20) {
        cat("TRUE\n")
    } else {
        cat(selected_number, "\n")
    }
}
```