

# Assignment / Query XML

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Spring 2023

## Question 4

```
library(XML)

xmlFile <- "CustomersAndOrders.xml"

dom <- xmlParse(xmlFile, validate=T)
root <- xmlRoot(dom)
```

## Question 5

```
xpathEx <- "//Customers/Customer[FullAddress[Region!='MA']]/ContactName"

customers <- xpathSApply(root, xpathEx, xmlValue)

print(customers)

## [1] "Howard Snyder" "Yoshi Latimer" "John Steel" "Jaime Yorres"
```

## Question 6

```
print(length(customers))

## [1] 4
```

## Question 7

```
xpathEx <- "sum(//Orders/Order[CustomerID='GREAL']/ShipInfo/Freight)"

orders <- xpathSApply(root, xpathEx)

print(orders)

## [1] 1087.61
```

## Question 8

```
xpathEx <- "//Orders/Order/ShipInfo[ShipCountry='USA']/Freight"

orders <- xpathSApply(root, xpathEx, xmlValue)
```

```
freight <- as.double(orders)
```

```
print(mean(freight))
```

```
## [1] 68.91818
```