

STAT 8416 Homework 1

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```
getSquare <- function(x) {  
  if (x > 100) {  
    return("Big number")  
  } else {  
    return(x^2)  
  }  
}
```

```
getSquare(5)
```

```
## [1] 25
```

```
getSquare(500)
```

```
## [1] "Big number"
```

```
getSquare <- function(x) {  
  
  z <- lapply(x, function(y) {  
    if (y > 100) {  
      return("Big number")  
    } else {  
      return(y^2)  
    }  
  })  
  return(z)  
  # TODO: Get this unlisted and keep numerics numeric  
}
```

```
getSquare(5)
```

```
## [[1]]  
## [1] 25
```

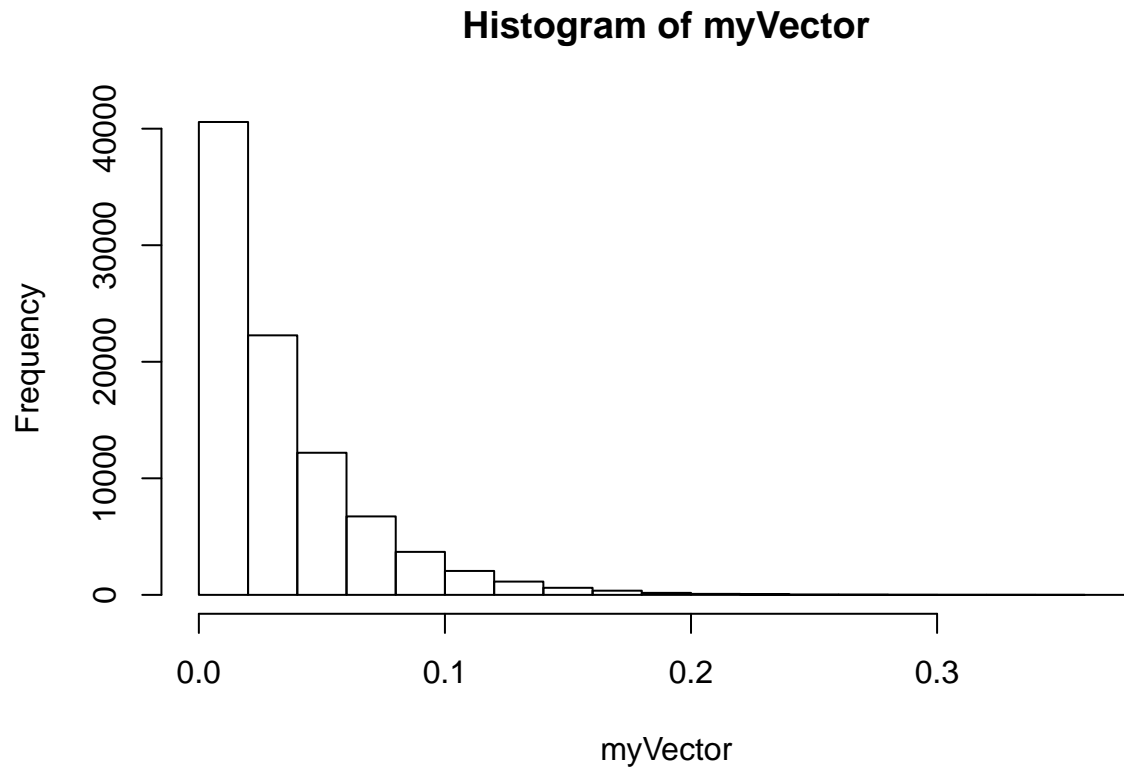
```
getSquare(500)
```

```
## [[1]]  
## [1] "Big number"
```

```
x <- c(25, 200)  
getSquare(x)
```

```
## [[1]]  
## [1] 625  
##  
## [[2]]  
## [1] "Big number"
```

```
myVector <- rexp(90000, r=30)  
hist(myVector)
```



```
myMatrix <- matrix(myVector, ncol=900)  
dim(myMatrix)
```

```
## [1] 100 900
```

```
hist(colMeans(myMatrix))
```

