ST555 Homework 11

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```r
# clean dataset
rm(list = ls())
```

Question 1

```r
# part 1
int <- c(1:50)# Create a vector "ints" that contains the integers from 1 to 50.
# part 2
powertwo <- 2^int #Create a vector "powertwo" that raises the integers 1 to 50 to the power of 2
```

Question 2

```r
squared50 <- int^2# Create a vector called "squared50" that captures n2 for the first 50 integers
```

Question 3

```r
equal <- powertwo == squared50 #Create a vector "equal" that holds the logical operators integers
numEqual <- sum(equal == 1) # There are 2 pairs
powertwo[equal] # print out the pairs  which satisfy equality
```

```
## [1]  4 16
```

```r
# clean dataset
rm(list = ls())
```