

## R Basics Exercise

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We will test on a few topics:

- Basic Data Types
- Basic Arithmetic
- Vector
- Vector Operations
- Comparison operators
- Vector Selection and Indexing

This is more of a review to make sure I've understood everything so far!

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Solve the following problems using R

What is two to the power of five?

```
2^5
```

```
## [1] 32
```

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Create a vector called `stock.prices` with the following data points: 23,27,23,21,34

```
stock.prices <- c(23,27,23,21,34)
stock.prices
```

```
## [1] 23 27 23 21 34
```

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Assign names to the price data points relating to the day of the week, starting with Mon, Tue, Wed, etc...

```
names(stock.prices) <- c('Mon', 'Tue', 'Wed', 'Thu', 'Fri')
stock.prices
```

```
## Mon Tue Wed Thu Fri
##  23  27  23  21  34
```

---

What was the average (mean) stock price for the week?

```
mean(stock.prices)
```

```
## [1] 25.6
```

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Create a vector called `over.23` consisting of logicals that correspond to the days where the stock price was more than \$23

```
over.23 <- stock.prices[stock.prices>23]
```

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Use the `over.23` vector to filter out the `stock.prices` vector and only return the day and prices where the price was over \$23

```
over.23
```

```
## Tue Fri  
## 27 34
```

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Use a built-in function to find the day the price was the highest

```
stock.prices[stock.prices == max(stock.prices)]
```

```
## Fri  
## 34
```

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