

# R Basics Exercise

We will test you on a few topics:

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

The exercises below should be straightforward if you've reviewed the lecture, don't expect something very challenging yet, this is more of a review to make sure you've understood everything so far! Later on exercises/projects will be more challenging (and a lot more fun!)

## Solve the following problems using R

What is two to the power of five?

In [1]:

Out[1]: 32

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

In [4]:

Out[4]: 23 27 23 21 34

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

In [6]:

```
Out[6]:      Mon 23
      Tues 27
      Wed 23
      Thu 21
      Fri 34
```

What was the average (mean) stock price for the week? (You may need to reference a built-in function)

In [7]:

Out[7]: 25.6

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

In [8]:

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

In [9]:

Out[9]:

<b>Tues</b>	27
<b>Fri</b>	34

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

In [16]:

Out[16]: **Fri**: 34

Okay that's it for the exercise on the basics! Great job!