

R Basics Exercises

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1) What is 2 to the power of 5 ?

```
2^5
```

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

2) 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
```

3) 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
```

4) What is the average of the stock price for the week ?

```
mean(stock_prices)
```

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

\textbf{5) 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 > 23
over_23
```

```
## Mon Tue Wed Thu Fri
## FALSE TRUE FALSE FALSE TRUE
```

6) Use the `over_23` vector to filter out the `stock_prices` vector only return the elements over \$23

```
stock_prices[over_23]
```

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

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

```
stock_prices[which.max(stock_prices)]
```

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