**Calculating total winnings**

Now that you have the poker and roulette winnings nicely as named vectors, you can start doing some data analytical magic.

You want to find out the following type of information:

* How much has been your overall profit or loss per day of the week?
* Have you lost money over the week in total?
* Are you winning/losing money on poker or on roulette?

To get the answers, you have to do arithmetic calculations on vectors.

It is important to know that if you sum two vectors in R, it takes the element-wise sum. For example, the following three statements are completely equivalent:

c(1, 2, 3) + c(4, 5, 6)

c(1 + 4, 2 + 5, 3 + 6)

c(5, 7, 9)

You can also do the calculations with variables that represent vectors:

a <- c(1, 2, 3)

b <- c(4, 5, 6)

c <- a + b

**Calculating total winnings (3)**

Based on the previous analysis, it looks like you had a mix of good and bad days. This is not what your ego expected, and you wonder if there may be a very tiny chance you have lost money over the week in total?

A function that helps you to answer this question is [sum()](http://www.rdocumentation.org/packages/base/functions/sum). It calculates the sum of all elements of a vector. For example, to calculate the total amount of money you have lost/won with poker you do:

total\_poker <- sum(poker\_vector)