Part 1 Tail recursion

- The goal is to write a function that counts the number of characters passed as program arguments.
- The program should be named counter and when called like this:
 - > scala counter hello there it would print "12"
- The Array of arguments needs to be converted to the List and then the tail-recursively the number of characters in each of the string should be accumulated and returned.
 - If String size function is used to get the length 4 points are given for the exercise
 - If the length of each string is obtained by another tail-recursive function the complete 6 points are granted
- The solutions have to be clean, i.e. technique with hiding "buffer" variables need to be used. The approach with external "var" filled while recursing is not accepted.

Part 2 New expression

In this exercise a new "expression" needs to be added. It should be called "randomly" and when used in following example:

```
for ( i <- 1 to 10 ) {
   val z = randomly(0.25){
     println("calling this"); 1
   }{
     println("calling that"); 2
   }
   println(z);
}</pre>
```

it would execute one of the two pieces of code with the probability given in the first argument (here "calling this" would be executes in 1 out of four cases - approximately).

It can be assumed that the return value is always of integer type.