CHAPTER

# **Rewriting Expressions - Solution**

In this exercise we ask you to rewrite some expressions or to understand the different forms that a solution can take. Some of the expressions are explained in https://medium.com/concerning-pharo/elegant-pharo-code-bb590f0856d0

# **Exercise: Examine the block expressions**

```
| sum |
sum := 0.
#(21 23 53 66 87) do: [:item | sum := sum + item].
sum
```

#### Exercise:

· What is the final result of sum?

Solution. The sum of all the numbers of the array: 250

#### Exercise:

• Rewrite this piece of code to use explicit array indexing (with the message at:) to access the array elements. Test your version.

### Solution.

```
| array sum |
array := #(21 23 53 66 87).
sum := 0.
1 to: array size do: [ :i | sum := sum + (array at: i) ].
sum
```

#### Exercise:

• Rewrite this code using inject:into: (check the implementation of inject:into: and its users in the system to understand how to use it).

## Solution.

```
[#(21 23 53 66 87) inject: 0 into: [:sum :item | sum + item]
```

## **Exercise: Comparing expressions**

You can express in different way the same computation. Have a look at each of them and check the messages that you do not know. Look for their implementation.