

WORKSHEET 2

Complete the following exercises in RStudio.

In RStudio load the following packages: `datasets`, `stats`, `graphics`, `base`.

1. Create a vector `x` containing the elements 5, 7, 3, 10, 1, 7, 19, 5, 2

Write code to:

- a) extract the 4th element of `x`.
- b) extract the 5th, 6th and 7th elements of `x`
- c) find the median of `x`
- d) determine the length of `x`

2. Using `rep()` function, create the following vectors:

- a) 6 6 6 6 6 6
- b) 3 3 3 4 4 4 6 6 6

3. Given the `p <- c(2,3,4,6,6)` and `q <- c(7,2,4,3,2)`. Explain the difference in the results of `p+q` and `sum(p+q)`

4.

Rewrite the following code using the colon operator.

```
x <- c(-50, -51, -52, -53, -54, -53, -52, -51, -50)
```

5. Use the replicate function `rep()` to generate the following sequence

1 1 2 2 3

(Note: there is not an error here. The required sequence has only one instance of '3')

END WORKSHEET 2