**Self-Study R Course (SSRC)**

**Chapter 6: Functions and Loops (and Bootstrap)**

**Instructions**

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|  | **Instructions** | **Resource** | **Comments** |
| **1.** | Briefly check out the exercise sheet for chapter 6 to get an impression of what you need to learn/know to solve it. |  |  |
| **2.** | Solve Task 1-7 of the exercise sheet. |  | Download and open the R -Script template that is provided on the SSRC website to insert your solutions in RStudio.  Tasks 4-7 are identical to Tasks 4-7 from the Chapter 4 and 5 exercise sheets. To save time, you could copy and paste from the respective solution. |
| **3.** | Do the following R Cloud tutorials: | [Tutorial: Function Basics](https://rstudio.cloud/learn/primers/6.1)  [Tutorial: How to Write a Function](https://rstudio.cloud/learn/primers/6.2)  [Turorial: Arguments](https://rstudio.cloud/learn/primers/6.3)  [Tutorial: Environments and Scoping Rules](https://rstudio.cloud/learn/primers/6.4) | It is not important that you understand every single technical detail in these tutorials, but we think that they are a convenient way to learn the most important things and aspects about writing your own functions in R. |
| **4.** | Solve Task 8-13 of the exercise sheet. |  | Many of the things you need to solve these tasks were taught in chapter 5 of the SSRC. |
| **5.** | Watch the following video: | [Video: For Loops](https://www.youtube.com/watch?v=h987LWDvqlQ&t) |  |
| **6.** | Solve Tasks 14-16 of the exercise sheet. |  |  |
| **7.** | Watch the following video. | [Video: Bootstrap Basics](https://www.youtube.com/watch?v=Xz0x-8-cgaQ&t) |  |
| **8.** | Solve Tasks 17-22 of the exercise sheet. |  |  |
| **9.** | Compare your solutions to the sample solution provided on the SSRC website. |  |  |