

Home assignment 1

Please, use RStudio for your solution. **Deadline for this HA is 13 September 23:59 Moscow time.**

Name your file as «Surname_Name_HA1» and put in Yandex folder
(<https://disk.yandex.ru/d/D8xcpgNIV-FagQ>)

Creating vectors and objects

1. Using function `seq()` create a vector which starts with 1 and contains 10 elements. Assign this vector to an object and show this object.
2. Using function `seq()` create a vector which starts with 1 and contains 20 elements. Assign this vector to an object and show this object.
3. Using function `rep()` create a vector 111333444, assign it to a new object and show it.
4. Using function `rep()` create a vector 134134134, assign it to a new object and show it.
5. Using concatenation (`c()`) create a vector 12349, assign it to a new object and show it.
6. Using combination of functions create a vector 1 1 2 2 3 3 1.25 1.5 2 10 11 12 13, assign it to the new object "NLV" and show it.
7. Create a new string vector containing labels for the vector "NLV". Assign it to the new object "SV" and show it.
8. Assign labels to the vector "NLV", show this object.
9. Create a logical vector "LV" with 5 elements and show it.

Calculations

1. Sum up vector 111333444 and vector 134134134.
2. Multiply these two vectors.
3. Extract vector 111333444 from vector 134134134, show results
4. Rise vector 134134134 in the power of 2, show results
5. Sum up vector 134134134 and pi number, assign to a new object "pi" show results.
6. Round up the sum to 2 elements after comma, show results.
7. Assign rounded sum into a new object "pi2" and show it.