Exercise 1: Calculations in R, creating new variables, and installing packages

1. Assign the value of 120 to x
2. Assign the value of 345 to y
3. Create a new variable z with the value from y subtracted from x
4. Return the value of z to the console
5. Create a matrix named “dat1” that has five row and four columns with the following data:

|  |  |  |  |
| --- | --- | --- | --- |
| 266 | 369 | 452 | 555 |
| 245 | 456 | 444 | 576 |
| 221 | 447 | 489 | 589 |
| 243 | 299 | 465 | 512 |
| 285 | 325 | 477 | 499 |

1. Determine the dimensions of the “dat1” matrix using a function.
2. Return the second row in the “dat1” matrix created in number 5 above
3. Create a data frame named “Lake1” that has six row and two columns with the following data:

|  |  |
| --- | --- |
| Species | TL |
| LMB | 195 |
| LMB | 210 |
| LMB | 222 |
| LMB | 168 |
| BLG | 95 |
| BLG | 125 |

1. Return the second column (i.e., total length column) of the “Lake1” data from two different ways.
2. Install the Hmisc package