EU StudyAssist

R for Research Test 1 (26th July 2024)

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Instructions

Wait until WEBR STATUS is Ready. Ideally it takes less than a seconds. You have twenty minutes to answer the questions. Do not reload the page. If you, you lose your progress. **Good luck!!**

Questions

1. create a vector of even numbers from 200 to 400 and save it in a variable called my_even_number. Print your result

```
my_even_number <- seq(200, 400, 2)
my_even_number</pre>
```

- [1] 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234
- [19] 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270
- [37] 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306
- [55] 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342
- [73] 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378
- [91] 380 382 384 386 388 390 392 394 396 398 400
 - 2. How many even numbers do we have in my_even_number

```
length(my_even_number)
```

[1] 101

3. create a vector of odd numbers from 30 to 108 and save it in a variable called my_odd_number

```
my_odd_number <- seq(31, 108, 2)
my_odd_number</pre>
```

- 53 [1] 33 35 37 39 45 51 55 59 61 63 65 67 41 43 47 49 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 101 103 105 [39] 107
 - 4. what is the median of my_odd_number

```
median(my_odd_number)
```

- [1] 69
 - 5. what is the average of my_even_number

```
mean(my_even_number)
```

- [1] 300
 - 6. Using R, find the remainder of 498 divided by 5

498%%5

- [1] 3
 - 7. Change the word **greatest** from lower case to upper case

```
toupper("greatest")
```

- [1] "GREATEST"
 - 8. Get the total value if you add my_even_number and my_odd_number

```
sum(my_even_number, my_odd_number)
```

- [1] 32991
 - 9. create a sequence of number from -10 to 10. and save it in the variable name my_number. Confirm if my_number data type is a character data type

```
my_number <- -10:10

is.character(my_number)</pre>
```

- [1] FALSE
- 10. If your answer in the previous is **TRUE** find the sum, else convert it to a character type

```
sum(my_number)
```

[1] 0

as.character(my_number)

```
[1] "-10" "-9" "-8" "-7" "-6" "-5" "-4" "-3" "-2" "-1" "0" "1" [13] "2" "3" "4" "5" "6" "7" "8" "9" "10"
```