

```
D:\Toate\Facultate al\3.Anul al III-lea\Statistica\My_Work\Tema1.r - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
new 1 new 2 tema3 (1).txt Tema1.r
1 centralLimit <- function(my_nb, my_mean, my_sd, max_sample, my_step){
2   CRLE
3   CRLE
4   subjects = rnorm(my_nb, my_mean, my_sd) CRLE
5   CRLE
6   print('Iar media esantioanelor, crescatoare la numar:') CRLE
7   my_sample = NULL CRLE
8   my_sequence = NULL CRLE
9   CRLE
10  for(i in 1+1:my_step-1){ CRLE
11    CRLE
12    my_sample = sample(subjects, max_sample/(my_step-i+1)) CRLE
13    print('Pentru') CRLE
14    print( round(max_sample/(my_step-i+1))) CRLE
15    print('subiecti, avem media') CRLE
16    CRLE
17    my_sequence[i] = mean(my_sample) CRLE
18    print(my_sequence[i]) CRLE
19    #print('#####') CRLE
20  } CRLE
21  print('Media adevarata este:') CRLE
22  print(mean(subjects)) CRLE
23  #print(my_sequence) CRLE
24  CRLE
25 }
```

```
RGui (64-bit)
File Edit View Misc Packages Windows Help
R Console
[1] 57.27542
[1] "Pentru"
[1] 12
[1] "subiecti, avem media"
[1] 54.49549
[1] "Pentru"
[1] 14
[1] "subiecti, avem media"
[1] 52.4132
[1] "Pentru"
[1] 17
[1] "subiecti, avem media"
[1] 49.68079
[1] "Pentru"
[1] 20
[1] "subiecti, avem media"
[1] 49.65784
[1] "Pentru"
[1] 25
[1] "subiecti, avem media"
[1] 49.27122
[1] "Pentru"
[1] 33
[1] "subiecti, avem media"
[1] 51.82079
[1] "Pentru"
[1] 50
[1] "subiecti, avem media"
[1] 49.0372
[1] "Pentru"
[1] 100
[1] "subiecti, avem media"
[1] 50.88082
[1] "Media adevarata este:"
[1] 50.88082
>
```

Observăm cum media esantioanelor se apropie de cea adevărată.