Tecnológico Nacional de México
Instituto Tecnológico Campus Tijuana
Ing. en Sistemas Computacionales

Subdirección académica
Departamento de sistemas y computación

Asignatura:
Minería de datos

Semestre
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Práctica 1

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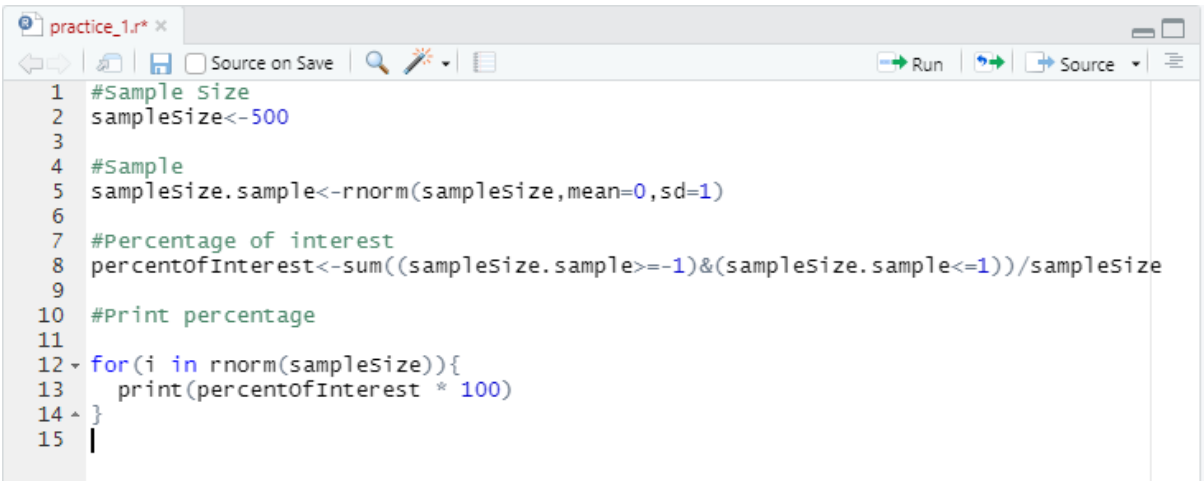
Test the Law Of Large Numbers for N random normally distributed numbers with mean = 0, stdev=1:
Create an R script that will count how many of these numbers fall between -1 and 1 and divide by the total quantity of N
You know that E(X) = 68.2%
Check that Mean(Xn)->E(X) as you rerun your script while increasing N
Hint:
1.Initialize sample size
2. Initialize counter
3. loop for(i in rnorm(size))
4. Check if the iterated variable falls
5. Increase counter if the condition is true
6. return a result <- counter / N



Values	
i	-1.48650313963767
percentOfInterest	0.678
sampleSize	500
sampleSize.sample	num [1:500] 0.803 0.193 -0.234 1.42 -0.418 ...