





TECNOLÓGICO NACIONAL DE MÉXICO INSTITUTO TECNOLÓGICO DE TLJUANA

SUBDIRECCIÓN ACADÉMICA

DEPARTAMENTO DE SISTEMAS Y COMPUTACIÓN

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CARRERA Ingeniería en informática

> MATERIA Minería de datos

> > TÍTULO

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

Input:

Output:

