



Instituto Tecnológico y de Estudios
Superiores de Monterrey

4.2 – Ejercicio de programación 1

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Pruebas de software y aseguramiento de la calidad

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Resultados

Repo URL: <https://github.com/carlossagrero/TC4017/tree/main/4.2>

P1

The screenshot shows a terminal window titled 'P1 > source > computeStatistics.py > ...'. The terminal displays the following code and its execution:

```
8  ****
9  # pylint: disable=invalid-name
10 import sys
11 import time
12 import math
13
14
15 # Req 2: Archivo de salida con nombre fijo StatisticsResults.txt
16 NOMBRE_ARCHIVO_SALIDA = "../results/StatisticsResults.txt"
(base) let's hack~/pruebas_pylint.sh
Valores leidos totales(validos + invalidos): 111
Numeros validos: 106
Valores invalidos: 5

==== Descriptive Statistics ====
Mean (media): 49.792453
Median (mediana): 47.500000
Mode (moda): 38
Variance (varianza): 794.428622
Standard deviation (desviacion estandar): 28.185610
Tiempo transcurrido (segundos): 0.000392

==== Errores detectados (se continuo la ejecucion) ====
Error en linea 100: valor '--' invalido (could not convert string to float: '--')
Error en linea 100: valor 'pa' invalido (could not convert string to float: "pa")
Error en linea 100: valor 'que' invalido (could not convert string to float: 'que')
Error en linea 100: valor 'truene' invalido (could not convert string to float: 'truene')
Error en linea 100: valor '--' invalido (could not convert string to float: '--')

>>> Ejecutando pylint...
-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
(base) let's hack~/
```

The terminal also shows the file structure on the left, including 'EDITORES ABIERTOS' containing 'computeStatistics.py' and other files like 'StatisticsResults.txt', 'fileWithData.txt', and 'pruebas_pylint.sh'. The status bar at the bottom indicates the current directory is '(base)' and the file is 'computeStatistics.py'.

P2

The screenshot shows a terminal window with the following content:

```
convertNumbers.py
P2 > source > convertNumbers.py > ...
3   convertNumbers.py
4
5   P2 - TC4017 - Pruebas de software y aseguramiento de la calidad
6   Carlos Isaac Sagrero Campos - A01796826
7
8   A ver que tal..
9   ....
10  # pylint: disable=invalid-name
11  import sys

(base) let's hack~/pruebas_pylint.sh
47  101111 2F
78  1001110 4E
36  100100 24
61  111101 3D
72  1001000 48
32  100000 20
44  101100 2C
40  101000 28
37  100101 25
43  101011 2B
51  110011 33

Error (linea 100): dato invalido -> -- pa' que truene --
38  100110 26
38  100110 26
38  100110 26
38  100110 26
38  100110 26
38  100110 26
38  100110 26
38  100110 26
Tiempo transcurrido (s): 0.000647
>>> Ejecutando pylint...
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

(base) let's hack~/
```

The terminal shows the execution of `convertNumbers.py` and its analysis with `pylint`. The output indicates a syntax error on line 100. The pylint rating is 10.00/10.

P3

The screenshot shows a terminal window with the following content:

```
(base) let's hack~/pruebas_pylint.sh
vulnerabilidades 1
al 1
final 1
suele 1
ser 1
más 1
costoso 1
riesgoso 1
que 1
prevenirlas 1
inicio 1
palabras 1
finales 1
prueba 1
a 3
b 2
á 1
ú 2
_____
Tiempo_transcurrido_segundos 0.0005895410431548953
>>> Ejecutando pylint...
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

Below the terminal, the status bar displays:

Lín. 1, col. 1 Espacios: 4 UTF-8 LF () Python base (3.12.7)