UNIVERSIDAD NACIONAL DE INGENIERÍA
Facultad de Ciencias
Escuela Profesional de Ciencia de la Computación

SEGUNDA PRÁCTICA CALIFICADA

Curso: **Fundamentos de Programación CC112 - A**

Nombres y Apellidos: Leo Alonso Velásquez Ronto

Código: 20252226H

1.

```
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ make asan
rm -f *.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob1.cpp -o prob1.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob2.cpp -o prob2.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob3.cpp -o prob3.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob4.cpp -o prob4.exe
prob4.cpp: In function ‘int main()’:
prob4.cpp:11:9: warning: unused variable ‘col’ [-Wunused-variable]
   11 |     int col=5;
      |         ^~~
prob4.cpp:12:9: warning: unused variable ‘fila’ [-Wunused-variable]
   12 |     int fila=5;
      |         ^~~~
prob4.cpp:13:11: warning: unused variable ‘inicio’ [-Wunused-variable]
   13 |     int (*inicio)[5]=matriz;
      |           ^~~~~~
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ ./prob1.exe
Arreglo original:
4x^3 + -1x^2 + 3x^1 + 2

Arreglo modificado:
24x^1 + -2
```

2.

```
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ make asan
rm -f *.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob1.cpp -o prob1.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob2.cpp -o prob2.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob3.cpp -o prob3.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob4.cpp -o prob4.exe
prob4.cpp: In function ‘int main()’:
prob4.cpp:11:9: warning: unused variable ‘col’ [-Wunused-variable]
   11 |     int col=5;
      |         ^~~
prob4.cpp:12:9: warning: unused variable ‘fila’ [-Wunused-variable]
   12 |     int fila=5;
      |         ^~~~
prob4.cpp:13:11: warning: unused variable ‘inicio’ [-Wunused-variable]
   13 |     int (*inicio)[5]=matriz;
      |           ^~~~~~
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ ./prob2.exe
-1  21  2  -2  8  13  25

Clave: 13

Igualdad exacta: encontrado valor: 13 Pos: 0x7c3e47400034
Misma paridad: No se encontro
Divide a: encontrado valor: -1 Pos: 0x7c3e47400020
Misma cantidad de digitos: encontrado valor: 21 Pos: 0x7c3e47400024
Mismo residuo modulo 5: encontrado valor: 8 Pos: 0x7c3e47400030
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$
```

3.

```
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ make asan
rm -f *.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob1.cpp -o prob1.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob2.cpp -o prob2.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob3.cpp -o prob3.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob4.cpp -o prob4.exe
prob4.cpp: In function ‘int main()’:
prob4.cpp:11:9: warning: unused variable ‘col’ [-Wunused-variable]
   11 |     int col=5;
      |         ^~~
prob4.cpp:12:9: warning: unused variable ‘fila’ [-Wunused-variable]
   12 |     int fila=5;
      |         ^~~~
prob4.cpp:13:11: warning: unused variable ‘inicio’ [-Wunused-variable]
   13 |     int (*inicio)[5]=matriz;
      |           ^~~~~~
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ ./prob3.exe
3  3  3  3  3
3  4  4  2  3
3  4  5  4  3
3  3  3  3  3
Elementos pico:
Pico en (0,3): 3
Pico en (1,1): 4
Pico en (1,4): 3
Pico en (2,2): 5
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$
```

4.

```
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ make asan
rm -f *.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob1.cpp -o prob1.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob2.cpp -o prob2.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob3.cpp -o prob3.exe
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -g prob4.cpp -o prob4.exe
prob4.cpp: In function ‘int main()’:
prob4.cpp:11:9: warning: unused variable ‘col’ [-Wunused-variable]
   11 |     int col=5;
      |         ^~~
prob4.cpp:12:9: warning: unused variable ‘fila’ [-Wunused-variable]
   12 |     int fila=5;
      |         ^~~~
prob4.cpp:13:11: warning: unused variable ‘inicio’ [-Wunused-variable]
   13 |     int (*inicio)[5]=matriz;
      |           ^~~~~~
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$ ./prob4.exe
pcs5@pcs5:~/Documentos/Fundamentos/pc2cc112$
```