



# UNIVERSIDAD NACIONAL DE INGENIERÍA

## Facultad de Ciencias

### Escuela Profesional de Ciencia de la Computación

## CUARTA PRÁCTICA CALIFICADA

Curso: Fundamentos de Programación CC112 - A

Nombres y Apellidos: Leo Alonso Velásquez Ronto

Código: 20252226H

1.

```
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make asan
make: Nothing to be done for 'asan'.
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make valgrind
valgrind --leak-check=full --show-leak-kinds=all ./build/debug/prob1
==17665== Memcheck, a memory error detector
==17665== Copyright (C) 2002-2022, and GNU GPL'd, by Julian Seward et al.
==17665== Using Valgrind-3.22.0 and LibVEX; rerun with -h for copyright info
==17665== Command: ./build/debug/prob1
==17665==
Polinomio 1: 2x^2 + 0x^1 + 3
Polinomio 2: -4x^1 + 5
Polinomio 3: 3x^2 + 0x^1 + 1
Suma de los tres polinomios: 5x^2 + -4x^1 + 9
Producto de los tres polinomios: -24x^5 + 30x^4 + -44x^3 + 55x^2 + -12x^1 + 15
==17665==
==17665== HEAP SUMMARY:
==17665==     in use at exit: 0 bytes in 0 blocks
==17665==   total heap usage: 7 allocs, 7 frees, 74,820 bytes allocated
==17665==
==17665== All heap blocks were freed -- no leaks are possible
==17665==
==17665== For lists of detected and suppressed errors, rerun with: -s
==17665== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4#
```

2.

```

root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make asan
make: Nothing to be done for 'asan'.
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make valgrind
valgrind --leak-check=full --show-leak-kinds=all ./build/debug/prob1
==17673== Memcheck, a memory error detector
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==17673==
==17673== For lists of detected and suppressed errors, rerun with: -s
==17673== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# ./build/debug
/prob2
Seleccion    PG      PE      PP      GF      GC      DG      Pts      Rend(%)
-----
Pais_1        45      19      36     262     242      20     154      51.3333
Pais_0        41      16      43     270     259      11     139      46.3333
Pais_4        41      15      44     267     248      19     138      46
Pais_2        41      14      45     231     237      -6     137      45.6667
Pais_3        34      24      42     250     274     -24     126      42
Campeon: Pais_1 | Puntaje: 154 | DG: 20 | Rendimiento: 51.3333
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4#

```

3.

```
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make asan
make: Nothing to be done for 'asan'.
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make valgrind
valgrind --leak-check=full --show-leak-kinds=all ./build/debug/prob1
==17686== Memcheck, a memory error detector
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==17686== Command: ./build/debug/prob1
==17686==
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Polinomio 3: 3x^2 + 0x^1 + 1
Suma de los tres polinomios: 5x^2 + -4x^1 + 9
Producto de los tres polinomios: -24x^5 + 30x^4 + -44x^3 + 55x^2 + -12x^1 + 15
==17686==
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==17686==
==17686== For lists of detected and suppressed errors, rerun with: -s
==17686== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# ./build/debug
/prob3
Ingrese la cantidad de productos:
5
Producto 1:
Codigo: 100
Nombre: Teclado
Precio: 10.5
Stock: 5
Producto 2:
Codigo: 101
Nombre: Mouse
Precio: 21
Stock: 10
Producto 3:
Codigo: 102
Nombre: Monitor
Precio: 31.5
Stock: 15
```

```
Producto 4:
Codigo: 103
Nombre: Laptop
Precio: 42
Stock: 20
Producto 5:
Codigo: 104
Nombre: Impresora
Precio: 52.5
Stock: 25
Inventario:
Codigo: 100 | Nombre: Teclado | Precio: 10.5 | Stock: 5 |
Codigo: 101 | Nombre: Mouse | Precio: 21 | Stock: 10 |
Codigo: 102 | Nombre: Monitor | Precio: 31.5 | Stock: 15 |
Codigo: 103 | Nombre: Laptop | Precio: 42 | Stock: 20 |
Codigo: 104 | Nombre: Impresora | Precio: 52.5 | Stock: 25 |
Ingrese el codigo del producto a buscar:
102
Buscando producto con codigo 102...
Producto encontrado: Monitor | Precio: 31.5
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4#
```

4.

```
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make asan
make: Nothing to be done for 'asan'.
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# make valgrind
valgrind --leak-check=full --show-leak-kinds=all ./build/debug/prob1
==17713== Memcheck, a memory error detector
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==17713==
Polinomio 1: 2x^2 + 0x^1 + 3
Polinomio 2: -4x^1 + 5
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Suma de los tres polinomios: 5x^2 + -4x^1 + 9
Producto de los tres polinomios: -24x^5 + 30x^4 + -44x^3 + 55x^2 + -12x^1 + 15
==17713==
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==17713== All heap blocks were freed -- no leaks are possible
==17713==
==17713== For lists of detected and suppressed errors, rerun with: -s
==17713== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4# ./build/debug
/prob4
Ingrese el numero del pedido: 101
Ingrese el nombre del cliente: Carlos Perez
Ingrese la cantidad de items: 3
Item 1:
Ingrese la descripcion: Laptop
Ingrese la cantidad: 1
Ingrese el precio: 100
Item 2:
Ingrese la descripcion: Mouse
Ingrese la cantidad: 2
Ingrese el precio: 200
Item 3:
Ingrese la descripcion: Teclado
Ingrese la cantidad: 3
Ingrese el precio: 300
```

```
Pedido N°: 101
Cliente: Carlos Perez

Items:
-Laptop | Cant: 1 | Precio: 100
-Mouse | Cant: 2 | Precio: 200
-Teclado | Cant: 3 | Precio: 300

Total: 1400Item mas caro: Teclado | Precio: 300
root@DESKTOP-OQQMUKA:~/proyectos/pc02-cc112a-LeoV32/semana5/solpc4#
```

