



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

CUARTA PRÁCTICA CALIFICADA

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

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1.

```
xelnagama@Xelnagama:/mnt/c/Users/alber/Desktop/pc02-cc112a-albganviniu-design/semana5/pc4$ valgrind ./build/debug/preguntal
==2391== Memcheck, a memory error detector
==2391== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==2391== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==2391== Command: ./build/debug/preguntal
==2391==
Polinomio 1: 1x^2 + 3
Polinomio 2: -4x^1 + 5
Polinomio 3: 3x^2 + 1

La suma de los tres polinomios es: 4x^2 + -4x^1 + 9

El producto de los tres polinomios es: -12x^5 + 15x^4 + -40x^3 + 50x^2 + -12x^1 + 15
==2391==
==2391== HEAP SUMMARY:
==2391==     in use at exit: 0 bytes in 0 blocks
==2391==   total heap usage: 8 allocs, 8 frees, 73,812 bytes allocated
==2391==
==2391== All heap blocks were freed -- no leaks are possible
==2391==
==2391== For lists of detected and suppressed errors, rerun with: -s
==2391== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

2.

Primera ejecución:

```
test01@pcs5:~/pc02-cc112a-albganviniu-design/semana5/pc4$ ./build/normal/pregunt
a2
Seleccion PG PE PP GF GC DG Pts Rend(%)
-----
Pais_1    52  25  23  298 242  56  181 60.3
Pais_3    38  28  34  271 253  18  142 47.3
Pais_2    14  70  16  252 265 -13  112 37.3
Pais_4    13  57  30  286 316 -30  96  32.0
Pais_0    17  3   80  215 348 -133 54  18.0

Campeon: Pais_1 | Puntaje: 181 | DG: 56 | Rendimiento: 60.3%
```

Segunda ejecución:

```

kelnagama@XeLnagama:/mnt/c/Users/alber/Desktop/pc02-cc112a-albganviniu-design/semana5/pc4$ valgrind ./build/debug/pregunta2
==2392== Memcheck, a memory error detector
==2392== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==2392== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==2392== Command: ./build/debug/pregunta2
==2392==
Selección PG PE PP GF GC DG Pts Rend(%)
-----
Pais_3 92 6 2 386 195 191 282 94.0
Pais_2 80 12 8 371 216 155 252 84.0
Pais_4 36 24 40 271 293 -22 132 44.0
Pais_0 10 89 1 284 270 14 119 39.7
Pais_1 27 37 36 265 284 -19 118 39.3

Campeon: Pais_3 | Puntaje: 282 | DG: 191 | Rendimiento: 94.0%
==2392==
==2392== HEAP SUMMARY:
==2392==     in use at exit: 0 bytes in 0 blocks
==2392==   total heap usage: 2 allocs, 2 frees, 73,728 bytes allocated
==2392==
==2392== All heap blocks were freed -- no leaks are possible
==2392==
==2392== For lists of detected and suppressed errors, rerun with: -s
==2392== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

```

3.

```
xelnagama@Xelnagama:/mnt/c/Users/alber/Desktop/pc02-cc112a-albganviniu-design/semana5/pc4$ valgrind ./build/debug/pregunta4
==2394== Memcheck, a memory error detector
==2394== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==2394== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==2394== Command: ./build/debug/pregunta4
==2394==

        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

Buscando producto con codigo 102...
Producto encontrado: Monitor | Precio: 31.5
==2394==

==2394== HEAP SUMMARY:
==2394==     in use at exit: 0 bytes in 0 blocks
==2394==   total heap usage: 8 allocs, 8 frees, 73,927 bytes allocated
==2394==
==2394== All heap blocks were freed -- no leaks are possible
==2394==

==2394== For lists of detected and suppressed errors, rerun with: -s
==2394== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

4.

```
xelnagama@Xelnagama:/mnt/c/Users/alber/Desktop/pc02-cc112a-albganviniu-design/semana5/pc4$ valgrind ./build/debug/pregunta4
==2395== Memcheck, a memory error detector
==2395== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==2395== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==2395== Command: ./build/debug/pregunta4
==2395==

Pedido N°: 101
Cliente: Carlos Perez

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

Total: 1400

Item mas caro: Teclado | Precio: 300
==2395==

==2395== HEAP SUMMARY:
==2395==     in use at exit: 0 bytes in 0 blocks
==2395==   total heap usage: 8 allocs, 8 frees, 73,866 bytes allocated
==2395==
==2395== All heap blocks were freed -- no leaks are possible
==2395==

==2395== For lists of detected and suppressed errors, rerun with: -s
==2395== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```