

CUARTA PRÁCTICA CALIFICADA

Curso: Fundamentos de Programación CC112 - A

Nombres y Apellidos: Víctor Salvador Urdanivia Churata

Código: 20240560E

1.

```
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ make asan
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_1.cpp -o build/asan/pre_1
pre_1.cpp: In function 'void sumaPol(polinomio*, polinomio*, polinomio*)':
pre_1.cpp:57:13: warning: variable 'maximo' set but not used [-Wunused-but-set-variable]
   57 |         int maximo = orden[i].n;
      |         ^~~~~~
pre_1.cpp:77:11: warning: ISO C++ forbids variable length array 'coef' [-Wvla]
   77 |         float coef[orden[0].n];
      |         ^~~~~~
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_2.cpp -o build/asan/pre_2
In file included from /usr/include/string.h:548,
                 from /usr/include/c++/13/cstring:42,
                 from pre_2.cpp:2:
In function 'char* strcpy(char*, const char*)',
    inlined from 'void rellenarDatos(seleccion*, int)' at pre_2.cpp:38:15:
/usr/include/x86_64-linux-gnu/bits/string_fortified.h:79:33: warning: 'void* __builtin_memcpy_chk(void*, const void*, long unsigned int, long unsigned int)' forming o
ffset [1, 5] is out of the bounds [0, 1] [-Warray-bounds=]
   79 |         return __builtin_strcpy_chk(__dest, __src, __glibc_objsize(__dest));
      |         ^~~~~~
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_3.cpp -o build/asan/pre_3
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_4.cpp -o build/asan/pre_4
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 prueba.cpp -o build/asan/prueba
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ c++ pre_1.cpp -o pre_1
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ ./pre_1
Polinomio 1: 1x^2 + 3
Polinomio 2: -4x^1 + 5
Polinomio 3: 3x^2 + 1
La suma de los tres polinomios: 4x^2 + -4x^1 + 9
La multiplicacion de loss tres polinomios: -12x^5 + 15x^4 + -40x^3 + 50x^2 + -12x^1 + 15
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$
```

2.

```
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ make asan
make: Nothing to be done for 'asan'.
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ make debug
mkdir -p build/debug
g++ -std=c++17 -Wall -Wextra -Wpedantic -g -O0 pre_1.cpp -o build/debug/pre_1
pre_1.cpp: In function 'void sumaPol(polinomio*, polinomio*, polinomio*)':
pre_1.cpp:57:13: warning: variable 'maximo' set but not used [-Wunused-but-set-variable]
   57 |         int maximo = orden[i].n;
      |         ^~~~~~
pre_1.cpp:77:11: warning: ISO C++ forbids variable length array 'coef' [-Wvla]
   77 |         float coef[orden[0].n];
      |         ^~~~~~
mkdir -p build/debug
g++ -std=c++17 -Wall -Wextra -Wpedantic -g -O0 pre_2.cpp -o build/debug/pre_2
mkdir -p build/debug
g++ -std=c++17 -Wall -Wextra -Wpedantic -g -O0 pre_3.cpp -o build/debug/pre_3
mkdir -p build/debug
g++ -std=c++17 -Wall -Wextra -Wpedantic -g -O0 pre_4.cpp -o build/debug/pre_4
mkdir -p build/debug
g++ -std=c++17 -Wall -Wextra -Wpedantic -g -O0 prueba.cpp -o build/debug/prueba
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ c++ pre_2.cpp -o pre_2
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ ./pre_2
Seleccion  PG  PE  PP  GF  GC  DG  Pts  Rend(%)
-----
Pais_4      55  15  30  255  214  41  180  60.00
Pais_1      46  38  16  252  206  46  176  58.67
Pais_2      23  61  16  277  269  8  120  43.33
Pais_5      11  79  10  238  238  0  112  37.33
Pais_3      17  10  73  216  302  -86  61  20.33

Campeon : Pais_4 | Puntaje : 180 | DG : 41 | Rendimiento : 60.00%
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$
```

3.

```
make: *** [makefile:68: build/asan/pre_1] Error 1
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ make asan
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_1.cpp -o build/asan/pre_1
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_2.cpp -o build/asan/pre_2
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/13/../../../../x86_64-linux-gnu/Scrt1.o: in function `_start':
(.text+0x1b): undefined reference to `main'
collect2: error: ld returned 1 exit status
make: *** [makefile:68: build/asan/pre_2] Error 1
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ c++ pre_3.cpp -o pre_3
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ ./pre_3

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
munmap_chunk(): invalid pointer
Aborted (core dumped)
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$
```

4.

```
Aborted (core dumped)
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ make asan
mkdir -p build/asan
g++ -std=c++17 -Wall -Wextra -Wpedantic -fsanitize=address -fno-omit-frame-pointer -g -O1 pre_2.cpp -o build/asan/pre_2
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/13/../../../../x86_64-linux-gnu/Scrt1.o: in function `_start':
(.text+0x1b): undefined reference to `main'
collect2: error: ld returned 1 exit status
make: *** [makefile:68: build/asan/pre_2] Error 1
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ c++ pre_4.cpp -o pre_4
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$ ./pre_4

Pedido Nº: 101
Cliente: Carlos Perez

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

Total : 1400

Item mas caro: Teclado | Precio: 300
double free or corruption (out)
Aborted (core dumped)
hugolarte@DESKTOP-604LIII:~/cc112_Americo/Americo_repositorios/pc02-cc112a-UrdaniviaVictor06/semana05/PC04$
```

