

Ejercicio ARRAY

```
array.cpp
1 #include <iostream>
2 #include <array>
3
4 using namespace std;
5
6 int main(int argc, char *argv[]){
7     array<int, 3> a = {8, 9, 10};
8
9     cout << a.size() << endl;
10    cout << a.front() << endl;
11    cout << a.back() << endl;
12
13    cout << a[0] << a[1] << a[2] << endl;
14
15    return 0;
}
```

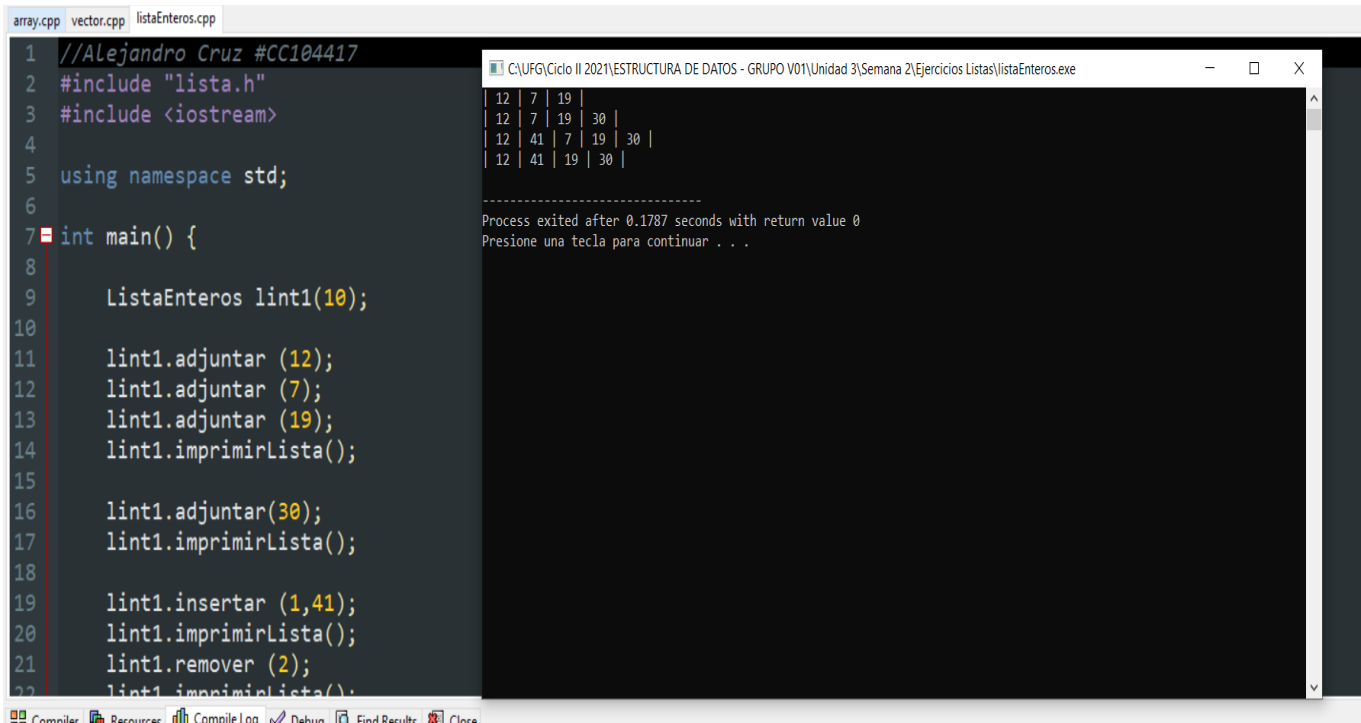
```
C:\UFG\Ciclo II 2021\ESTRUCTURA DE DATOS - GRUPO V01\Unidad 3\Semana 2\Ejercicios Listas\array.exe
3
8
10
8910
-----
Process exited after 0.05161 seconds with return value 0
Presione una tecla para continuar . . .
```

Ejercicio VECTOR

```
array.cpp  vector.cpp
1 //Alejandro Cruz #CC104417
2 #include <iostream>
3 #include <vector>
4
5 using namespace std;
6
7 int main(int argc, char *argv[]){
8     vector<int> v;
9     v.push_back(2);
10    v.push_back(3);
11    v.push_back(4);
12    v.push_back(5);
13    v.push_back(6);
14    v.push_back(7);
15
16    cout << v.size() << endl;
}
```

```
C:\UFG\Ciclo II 2021\ESTRUCTURA DE DATOS - GRUPO V01\Unidad 3\Semana 2\Ejercicios Listas\vector.exe
6
2
7
2
3
4
5
6
7
-----
Process exited after 1.272 seconds with return value 0
Presione una tecla para continuar . . .
```

Ejercicio Lista Enteros



The screenshot shows a C++ IDE with two windows. The left window displays the source code for `listaEnteros.cpp`, and the right window shows the program's output.

Source Code (listaEnteros.cpp):

```
1 //Alejandro Cruz #CC104417
2 #include "lista.h"
3 #include <iostream>
4
5 using namespace std;
6
7 int main() {
8     ListaEnteros lint1(10);
9
10    lint1.adjuntar (12);
11    lint1.adjuntar (7);
12    lint1.adjuntar (19);
13    lint1.imprimirLista();
14
15    lint1.adjuntar(30);
16    lint1.imprimirLista();
17
18    lint1.insertar (1,41);
19    lint1.imprimirLista();
20    lint1.remover (2);
21    lint1.imprimirLista();
22}
```

Output (listaEnteros.exe):

```
12 | 7 | 19 |
12 | 7 | 19 | 30 |
12 | 41 | 7 | 19 | 30 |
12 | 41 | 19 | 30 |

-----
Process exited after 0.1787 seconds with return value 0
Presione una tecla para continuar . . .
```

The output displays the state of the linked list after each operation: initial state, after adding 12, 7, and 19; after adding 30; after inserting 41 at index 1; and after removing the element at index 2.