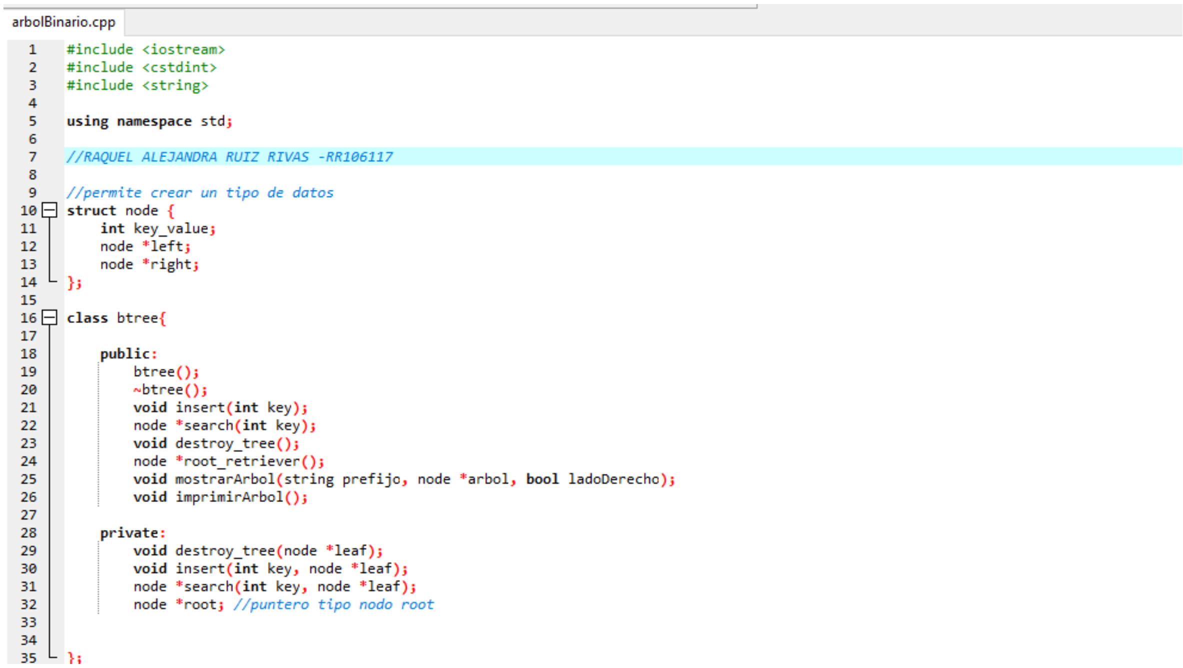
RAQUEL ALEJANDRA RUIZ RIVAS -RR106117

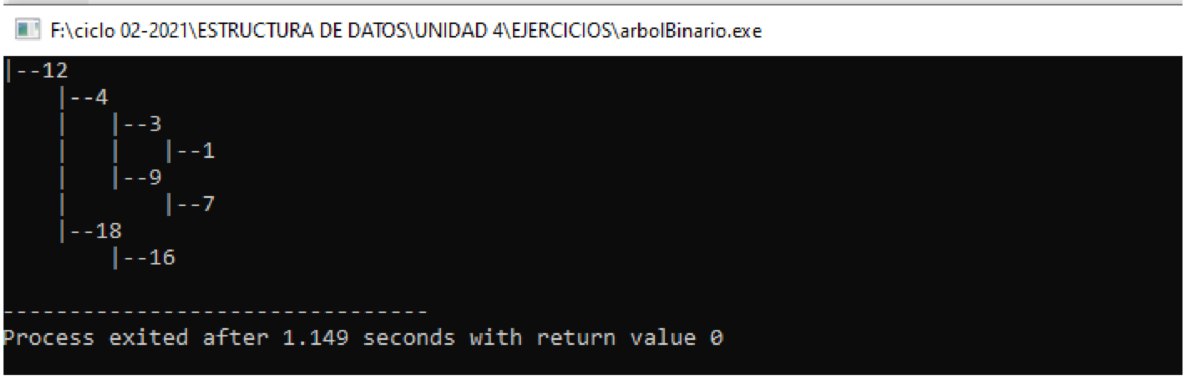
CAPTURAS DE PANTALLA

ARBOL BINARIO



arbolBinario.cpp

```cpp
#include <iostream>
#include <cstdint>
#include <string>

using namespace std;

//RAQUEL ALEJANDRA RUIZ RIVAS -RR106117

//permite crear un tipo de datos
struct node {
    int key_value;
    node *left;
    node *right;
};

class btree{

    public:
        btree();
        ~btree();
        void insert(int key);
        node *search(int key);
        void destroy_tree();
        node *root_retriever();
        void mostrarArbol(string prefijo, node *arbol, bool ladoDerecho);
        void imprimirArbol();

    private:
        void destroy_tree(node *leaf);
        void insert(int key, node *leaf);
        node *search(int key, node *leaf);
        node *root; //puntero tipo nodo root


};
```



F:\ciclo 02-2021\ESTRUCTURA DE DATOS\UNIDAD 4\EJERCICIOS\arbolBinario.exe

```
|--12
    |--4
    |   |--3
    |   |   |--1
    |   |--9
    |       |--7
    |--18
        |--16

--------------------------------
Process exited after 1.149 seconds with return value 0
```

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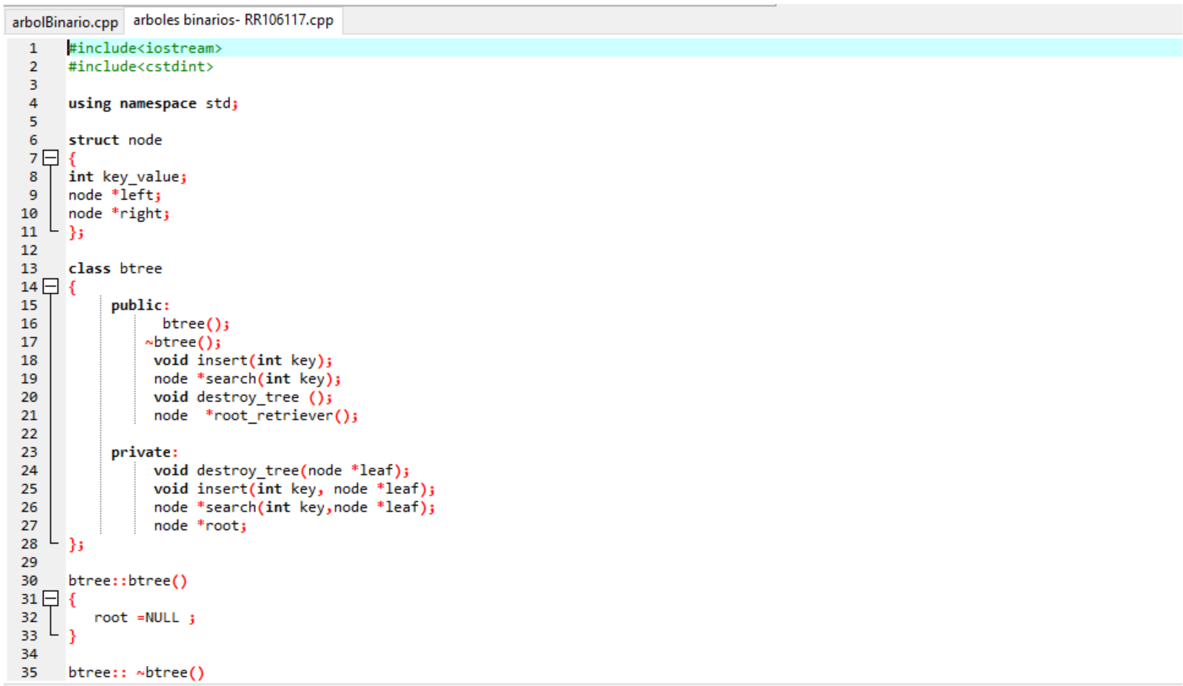
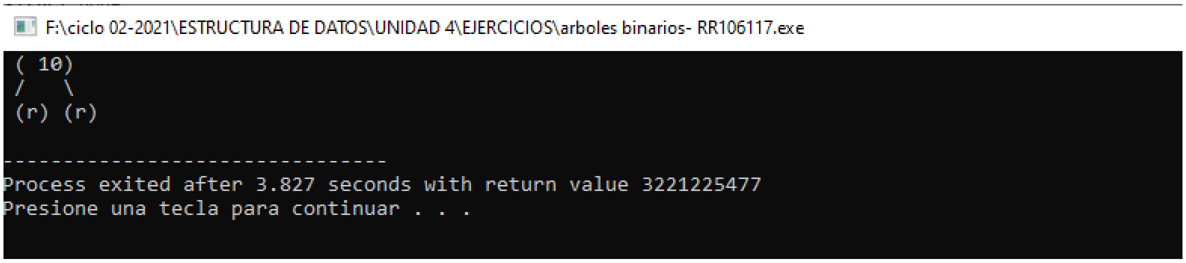


```cpp
#include<iostream>
#include<cstdint>

using namespace std;

struct node
{
int key_value;
node *left;
node *right;
};

class btree
{
	public:
	      btree();
	    ~btree();
	     void insert(int key);
	     node *search(int key);
	     void destroy_tree ();
	     node  *root_retriever();

	private:
	     void destroy_tree(node *leaf);
	     void insert(int key, node *leaf);
	     node *search(int key,node *leaf);
	     node *root;
};

btree::btree()
{
   root =NULL ;
}

btree:: ~btree()
```


F:\ciclo 02-2021\ESTRUCTURA DE DATOS\UNIDAD 4\EJERCICIOS\arboles binarios- RR106117.exe

```
 ( 10)
 /   \
 (r) (r)

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Process exited after 3.827 seconds with return value 3221225477
Presione una tecla para continuar . . .
```