UNIVERSIDAD UNIAGUSTINIANA

DESARROLLO DE SOFTWARE

TALLER_1

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CONTENIDO

- **Código:**

```cpp
#include <iostream>

class BinarySearch {
private:
    int* arr;
    int size;

public:
    BinarySearch(int a[], int s) : arr(a), size(s) {}

    int search(int target) {
        int left = 0;
        int right = size - 1;

        while (left <= right) {
            int mid = left + (right - left) / 2;

            if (arr[mid] == target) {
                return mid;
            } else if (arr[mid] < target) {
                left = mid + 1;
            } else {
                right = mid - 1;
            }
        }

        return -1;
    }
};

int main() {
    int list1[] = {1, 3, 5, 7, 9};
    int list2[] = {11, 13, 15, 17, 19};
    int list3[] = {21, 23, 25, 27, 29};
    int target;

    std::cout << "Ingrese un número impar del 1 al 30: ";
    std::cin >> target;

    BinarySearch searches[] = {BinarySearch(list1, sizeof(list1) / sizeof(list1[0])),
                               BinarySearch(list2, sizeof(list2) / sizeof(list2[0])),
                               BinarySearch(list3, sizeof(list3) / sizeof(list3[0]))};

    bool found = false;

    for (int i = 0; i < 3; ++i) {
        int index = searches[i].search(target);
        if (index != -1) {
            found = true;
            int* foundPtr = &searches[i].arr[index];
            std::cout << "El elemento " << target << " se encuentra en la lista " << (i + 1)
                      << ", posición " << index << ". Dirección de memoria: " << foundPtr << std::endl;
        }
    }

    if (!found) {
        std::cout << "El elemento " << target << " no se encontró en ninguna lista." << std::endl;
    }

    std::cout << "Presione Enter para salir.";
    std::cin.ignore();
    std::cin.get();
    return 0;
}
```

```
C:\Users\User\vs1\output\Bin...

Ingrese un número impar de 1 a 30: 13
El elemento 13 se encuentra en la lista 2, posición 1. Dirección de memoria: 0xafa0bffd04
Presione una tecla para continuar . . .
```

- **Creaticion del repositorio:**

```
Git CMD                                    ×    +    ∨                          —   ☐   ×

C:\Users\User>git config --global user.name "Esteban"

C:\Users\User>git config --global user.email "juan.garzonb@uniagustiniana.edu.co

C:\Users\User>




















Microsoft Windows [Versión 10.0.22621.2134]
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C:\Users\User\Desktop\Repositorio>git --version
git version 2.42.0.windows.1

C:\Users\User\Desktop\Repositorio>git init
Initialized empty Git repository in C:/Users/User/Desktop/Repositorio/.git/

C:\Users\User\Desktop\Repositorio>git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        vs1/

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\User\Desktop\Repositorio>git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
        add

C:\Users\User\Desktop\Repositorio>git add .
warning: in the working copy of 'vs1/.vscode/tasks.json', LF will be replaced by CRLF the next time Git touches it

C:\Users\User\Desktop\Repositorio>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   vs1/.vscode/launch.json
        new file:   vs1/.vscode/settings.json
        new file:   vs1/.vscode/tasks.json
        new file:   vs1/Binario.cpp
        new file:   vs1/output/Binario.exe


C:\Users\User\Desktop\Repositorio>git commit -m"Creando un commit"
[master (root-commit) 2942759] Creando un commit
 5 files changed, 155 insertions(+)
 create mode 100644 vs1/.vscode/launch.json
 create mode 100644 vs1/.vscode/settings.json
 create mode 100644 vs1/.vscode/tasks.json
 create mode 100644 vs1/Binario.cpp
 create mode 100644 vs1/output/Binario.exe
```

```
C:\Users\User\Desktop\Repositorio>git status
On branch master
nothing to commit, working tree clean

C:\Users\User\Desktop\Repositorio>git remote add origin https://github.com/Esteban2135/Repositorio.git

C:\Users\User\Desktop\Repositorio>git push origin master
info: please complete authentication in your browser...
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (10/10), 469.08 KiB | 8.09 MiB/s, done.
Total 10 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Esteban2135/Repositorio.git
 * [new branch]      master -> master

C:\Users\User\Desktop\Repositorio>
```