Longest Increasing Subsequence

DESCRIPTION

Project Objective:

As a developer, write a program to find the longest increasing subsequence.

Background of the problem statement:

As a developer, write a Java code to find the longest increasing subsequence from a list of random numbers.

You must use the following:

- Eclipse/IntelliJ: An IDE to code for the application.
- Java: A programming language.
- Git: To connect and push files from the local system to GitHub.
- GitHub: To store the application code and track its versions.
- Core Java concepts: variables, data types, operators, type casting, control statements, class, objects, access specifiers, and core keywords like final, this, and static.

Following requirements should be met:

- The versions of the code should be tracked on GitHub repositories.
- The code should work properly for n numbers, where n<100.

Code:-

```
    static int lis(int arr[], int n)
{
        max_ref = 1;
        _lis(arr, n);
        return max_ref;
      }
    public static void main(String args[])
{
        int arr[] = { 10, 22, 9, 33, 21, 50, 41, 60 };
        int n = arr.length;
        System.out.println("LENGTH OF GIVEN LIST IS: " + lis(arr, n)+ "\n");
      }
}
```

Output:-

