**Longest Increasing Subsequence Project**

**Sourcecode:**

**package** harishphase1;

**class** LongSubsequence {

**static** **int** *max\_num*;

**static** **int** a(**int** arr[], **int** n)

{

**if** (n == 1)

**return** 1;

**int** res, max\_ending\_num = 1;

**for** (**int** i = 1; i < n; i++) {

res = *a*(arr, i);

**if** (arr[i - 1] < arr[n - 1] && res + 1 > max\_ending\_num)

max\_ending\_num = res + 1;

}

**if** (*max\_num* < max\_ending\_num)

*max\_num* = max\_ending\_num;

**return** max\_ending\_num;

}

**static** **int** b(**int** arr[], **int** n)

{

*max\_num* = 1;

*a*(arr, n);

**return** *max\_num*;

}

**public** **static** **void** main(String args[])

{

**int** arr[] = { 10, 22, 9, 38, 21, 56, 41, 60 };

**int** n = arr.length;

System.***out***.println("Length of b is " + *b*(arr, n) + "\n");

}

}

**GitHub Url**

**https://github.com/HarishVanka73/lis.git**