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                                                                                                                                                                                                                                                                                                                                                                                      1 package Project;
                                                                                                                                                                                                                                                                                                                                                                                  <terminated> LongestIncreasingSubsequent [January 1988]
     3 public class LongestIncreasingSubsequent {
                                                                                                                                                                                                                                                                                                                                                                                   The Lenght of the LIS is 6
      4
      50
                          public static int LIS(int[] arr, int i, int n, int prev)
                                      //base case : nothing is remaining
                                if (i ==n)
                                             return 0;
                                //casel: exclude the current element and process the remaining element
                                 int excl = LIS(arr, i + 1, n, prev);
  14
                             //case2: include the current element if it is greater than the previous element is LIS
   16
                                int incl = 0;
                                if (arr[i]> prev)
  20
                                            incl = 1 + LIS(arr, i +1, n, arr[i]);
  21
  22
  23
                                 //return the maximum of the above two choices
                                 return Integer.max(incl, excl);
25
  26⊖
                          public static void main(String[] args) {
                                       int[] arr = {1, 4, 9, 20, 14, 43, 65, 13, 34, 22, 55, 12};
  27
                                       System.out.println("The Lenght of the LIS is " + LIS(arr, 0, arr.length, Integer.MIN VALUE));
   28
   29
   30
   31
   32 }
  33
```

Activate Windows

Go to Settings to activate Windows.