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LIS PROGRAM: -
package com.sl.Assignments.PracticeProject;
/* A Naive Java Program for LIS Implementation */
class LIS {
      static int max_ref; // stores the LIS
      static int _lis(int arr[], int n)
             if (n == 1)
                    return 1;
             int res, max_ending_here = 1;
             for (int i = 1; i < n; i++) {</pre>
                    res = _lis(arr, i);
                    if (arr[i - 1] < arr[n - 1]</pre>
                           && res + 1 > max_ending_here)
                           max_ending_here = res + 1;
             }
             if (max_ref < max_ending_here)</pre>
                    max_ref = max_ending_here;
             return max_ending_here;
      }
      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 lis is " + Lis(arr, n)
                                         + "\n");
      }
```

}