```
package Practiseproject;
public class LongIncreasingSequence {
    static int max ref;
    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++) {
   res = lis(arr, i);
    if (arr[i - 1] < arr[n - 1]
    && 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, 80};
    int n = arr.length;
    System.out.println("Length of Long increasing sequence is " + lis(arr,
    n)
    + "\n");
}
```

Length	of	Long	increasing	sequence	is	6