**Problem Statement**

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

**Algorithm**

1. Print “Enter number of elements”
2. Read n
3. If (n>100)
4. Print “Limit reached”
5. Else
6. Declare an integer array a
7. Print “Enter elements”
8. Read a[i]
9. Print “Length of longest increasing subsequence”
10. Call function with parameters find(a, n-1)
11. In function find(a[], i)
12. If (i==0)
13. Return 1
14. Declare integer variable l and initialize it as 1
15. Start for loop from j=0 to j<i
16. If (a[i]>a[j])
17. l = find max of (l, find(a,j) + 1) where the function find is being called recursively
18. Return l