```
package Practice;
import java.util.Arrays;
public class LongestIncreasingSubsequence {
    public static int longestIncreasingSubsequence(int[] nums) {
         int n = nums.length;
         if (n == 0) {
              return 0;
         }
         int[] lis = new int[n];
         Arrays.fill(lis, 1);
         for (int i = 1; i < n; i++) {
              for (int j = 0; j < i; j++) {
                    \textbf{if } (\texttt{nums}[\texttt{i}] \texttt{ > nums}[\texttt{j}] \texttt{ \&\& } \texttt{ lis}[\texttt{i}] \texttt{ < lis}[\texttt{j}] \texttt{ + 1)} \texttt{ \{} 
                        lis[i] = lis[j] + 1;
                   }
              }
         }
         int maxLength = Arrays.stream(lis).max().orElse(1);
         return maxLength;
    }
    public static void main(String[] args) {
         int[] nums = {15, 22, 9, 33, 23, 50, 31, 65, 83};
         int result = LongestIncreasingSubsequence(nums);
         System.out.println("Length of Longest Increasing Subsequence: " + result);
    }
}
```