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<trminated> P1S3P1 (1) [Java Application] C\Program Files\Java\jdk-21\bin\javaw.exe (01-Apter the number of elements in the list: 5
Enter the elements of the list:
                                                                                                               1 package javapract;
2 import java.util.*;
                                                                                                      Longest Increasing Subsequence:
[5, 6, 7]
                                                                                                                                              int n = nums.length;
List<List<Integer>> subsequences = new ArrayList<>();
List<Integer> longestIncreasingSubsequence = new ArrayList<>();
                                                                                                                                             for (int i = 0; i < n; i++) {
    List<Integer> currentSubsequence = new ArrayList<>();
    currentSubsequence.add(nums[i]);
                                                                                                                                                    for (int j = 0; j < i; j++) {
   if (nums[i] > nums[j] && subsequences.get(j).size() >= currentSubsequence.size()) {
      currentSubsequence = new ArrayList<>(subsequences.get(j));
      currentSubsequence.add(nums[i]);
   }
}
                                                                                                                                                            subsequences.add(currentSubsequence);
                                                                                                                                                         if (currentSubsequence.size() > longestIncreasingSubsequence.size()) {
    longestIncreasingSubsequence = currentSubsequence;
                                                                                                                                              return longestIncreasingSubsequence;
                                                                                                                                   public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
                                                                                                                                               System.out.print("Enter the number of elements in the list: ");
int n = scanner.nextInt();
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eclipse-workspace - unassisted pratcice projects/src/javapract/P1S3P1.java - Eclipse IDE
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 The Package Expt... x pl.lnit  

Package Expt
                                                                                                                                                                                                                                                                                                                                                                                                                                         1 package javapract;
2 import java.util.*;
                                                                                                   4 public class P1S3P1 {
                                                                                                                                                                                                                                                                                                                                                                                                                                          Longest Increasing Subsequence: [1, 2, 3, 4, 5, 6, 7, 8]
                                                                                         int n = nums.length;
List<List<Integer>> subsequences = new ArrayList<>();
List<Integer> longestIncreasingSubsequence = new ArrayList<>();
           for (int i = 0; i < n; i++) {
   List (Integer > current Subsequence = new ArrayList <> ();
   current Subsequence.add(nums[i]);
                                                                                                                                        for (int j = 0; j < i; j++) (
   if (nums[i] & Mas subsequences.get(j).size() >= currentSubsequence.size()) {
     currentSubsequence = new ArrayList<>(subsequences.get(j));
     currentSubsequence.add(nums[i]);
                                                                                                                                     }
                                                                                                                                          subsequences.add(currentSubsequence);
                                                                                                                                          if (currentSubsequence.size() > longestIncreasingSubsequence.size()) {
   longestIncreasingSubsequence = currentSubsequence;
                                                                                                                               return longestIncreasingSubsequence;
                                                                                                                  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
                                                                                                                                 System.out.print("Enter the number of elements in the list: ");
int n = scanner.nextInt();
```