Source Code:

```
package LongestIncreasingSubsequence;

public class longestIncreasingSubsequence {
        static int increase_subseq(int my_arr[], int arr_len){
            int seq_arr[] = new int[arr_len];
            int i, j, max = 0;
            for (i = 0; i < arr_len; i++)
              seq_arr[i] = 1;
            for (i = 1; i < arr_len; i++)
            for (j = 0; j < i; j++)
            if (my_arr[i] > my_arr[j] && seq_arr[i] < seq_arr[j] + 1)
            seq_arr[i] = seq_arr[j] + 1;
            for (i = 0; i < arr_len; i++)
            if (max < seq_arr[i])
            max = seq_arr[i];
            return max;
          }
          public static void main(String args[]){
            int my_arr[] = { 71, 89, 48, 49, 122};
            int arr_len = my_arr.length;
            System.out.println("The length of the longest increasing subsequence is " +  increase_subseq(my_arr, arr_len));
          }

}
```