```java
package LIS;

public class myLIS {
        static int count;

        static int fun(int arr[], int n) {

                int i, j;
                int[] ab = new int[n];

                if (n <= 1) {
                        return 1;
                }

                // Initializing the lIS values for all array elements to 1
                for (i = 0; i < n; i++) {
                        ab[i] = 1;
                }

                // using if conditions to increase the LIS value
                for (i = 1; i < n; i++) {
                        for (j = 0; j < i; j++) {
                                if (arr[i] > arr[j] && ab[i] < ab[j] + 1) {
                                        ab[i] = ab[j] + 1;
                                        count = ab[i]; // assaining the value to
count
                                }}}return count; }
// main method
        public static void main(String[] args) {
                int ar[] = { 1, 9, 3, 8, 2, 58, 12, 66, 13, 14, 15, 16, 17 };     //
intialization of array
                int n = ar.length;
                int k;

                k = fun(ar, n);

                System.out.println("the largest Increased Sequence (LIS) is " + k);
        }

}
```