

```
package com.ASSG;  
import java.util.*;
```

```
public class Seq {  
    public static void main (String[] args)  
    {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("How many integers to be added?");
```

```
        int n = sc.nextInt();  
        System.out.println("Enter the numbers: ");  
        int[] arr = new int[n];  
        for(int i=0;i<n;i++) {
```

```
            arr[i] = sc.nextInt();
```

```
        }
```

```
        int max =0;
```

```
        int maxindex =0;
```

```
        int count =0;
```

```
        for(int i=0;i<n-1;i++) {
```

```
            if(arr[i]<arr[i+1]) {
```

```
                count=count+1;  
            }
```

```
        else {
```

```
            if(count>max)
```

```
            {  
                max = count;  
                maxindex = i;  
            }
```

```
count =0;  
}  
}
```

```
System.out.println("LongestIncreasingSubsequence");
```

```
int l = maxindex-max;
```

```
for(int j=0;j<=max;j++) {
```

```
System.out.print(arr[l]+" ");
```

```
l++ ;  
}
```

```
}
```

```
}
```