**Description**

* The necessary packages are imported first.
* Array passed on is{10, 22, 9, 33, 21, 50, 41, 60, 80}.
* For each pass initial value to be compared is set as Integer.***MIN\_VALUE*** . This is useful when negative numbers are also present in array.
* For loop is used and each time the value is updated.
* Previous highest subsequence is then compared.
* Using Array List collection a list is used to store the sequence.
* Using Iterator class , the list is finally printed.
* Its size is the length of the longest increasing subsequence.