**Longest Increasing Subsequence**

**GitHub Link:**

**<https://github.com/saranya611/testapp>**

**Writeup:**

1. Create array for tracking the predecessors/parents of elements of each subsequence.
2. Create a variable for tracking ends of each increasing subsequence.
3. To calculate length of longest subsequence.
4. Create for loop.
5. Implement Binary Search to calculate low,high and mid.
6. Conditions for longest increasing subsequence
   1. -Update parent/previous element for longest increasing subsequence
   2. -otherwise, replace or append
7. Now, update the length of the longest subsequence.
8. Generate longest increasing subsequence by travering parent array and print the length of the longest increasing subsequence.
9. Create a main function and provide the input using Scanner.