**ALGORITHM 2:** Finding the longest run of ascending numbers in an assorted array using recursion.

**START:**

Function: Finding the length of the run using recursion

**INPUT:** Array, array length, initial run value

**SET:** initial value of run count and length of run

**FOR:** Every i in the array

**IF:** There is a run of ascending numbers

**INCREMENT:** count

**IF:** Highest run < length of the run

**SET:** length of run to highest run

Function: Find length of subarray using the recursion function

**SET:** initial run value to 0

**CALL:** recursion function

**INPUT:** size of array = n

**IF:** size of array input is not int type, re-enter a valid value.

**COMPUTE:** random array of size n

**PRINT:** array

**COMPUTE:** run-time analysis, subarray length for random array of size n

**PRINT:** Length of run, run-time

**END.**