

WRITE UP

Longest Increasing Subsequence

- ☐ Initialised two arrays I1 and I2 with default values
- ☐ Iterates through the input array to compute the length of the LIS ending at each position and the previous index in that LIS.
- ☐ The maximum length of the LIS and its ending index are then determined.
- ☐ Finally, the LIS is reconstructed by traversing the I2 array starting at the ending index and adding each corresponding value from the input array to a list, which is then returned.