1   Longest Unimodal Subsequence

- If we apply LIS 2 times. First on the initial array and then on the reversed array and store the 2 dp arrays.

- Then for each index i we can find the maximum subsequence on the left side as well on the right side.

- Hence we will find the required answer.

- Time complexity is $O(2N^2)$

- Submission id 248030334

2   Cake Cutting

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[1]Some of the problems are adapted from existing problems from online sources. Thanks to the original authors.