Project Writeup

Project Name: LIS (Longest Increasing Subsequence)

Project Description:

The Longest Increasing Subsequence (LIS) problem is to find the length of the longest subsequence of a given sequence such that all elements of the subsequence are sorted in increasing order.

To make use of recursive calls, this function must return two things:
1) Length of LIS ending with element arr[n-1]. We use max_ending_here for this purpose
2) Overall maximum as the LIS may end with an element before arr[n-1] max_ref is used this purpose.
The value of LIS of full array of size n is stored in max_ref which is our result