12/11/20

Leetcode:

1. Array-based
2. Link-list

Review + new problem

**1054: Distant Barcode**

**Input:** barcodes = [1,1,1,1,2,2,3,3]

**Output:** [1,3,1,3,1,2,1,2]

Rearrange the barcodes so that no two adjacent barcodes are equal.

1. Use heapq as **priority Q**.
2. 229. Bulls and Cows

**Input:** secret = "1807", guess = "7810"

**Output:** "1A3B"

Use collections.Counter()

Two Linear Scans

1. 300 Longest Increasing Subsequence

Simply dp.

dp = [1] \* n

max\_len = 1

**for i in range(n):**

**for j in range(i):**

**if nums[i] > nums[j]:**

len\_new = dp[j]+1

dp[i] = len\_new if len\_new > dp[i] else dp[i]

max\_len = max(max\_len, dp[i])

return max\_len