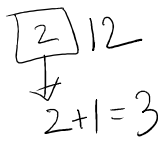
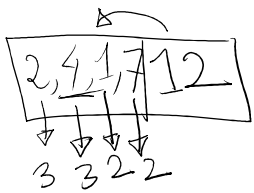
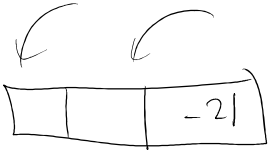


LIS \rightarrow Longest Incr. Subseq.

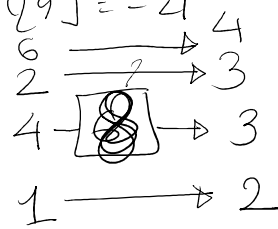
$O(N^2) \rightarrow$ DP

$O(N \log_2 N) \rightarrow$ Binary Search

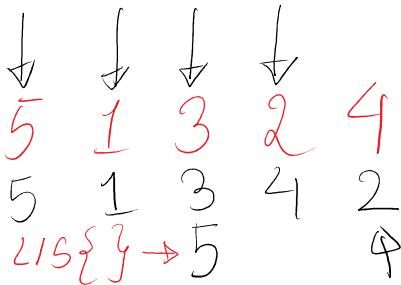


$dp[i] = arr[i]$ & Increasing subsequence w/o last element hilahe hilahe kare LIS ko

$dp[9] = 1 \rightarrow arr[9] = -21$



$[1, 7] \rightarrow dp[i]$
 $v \rightarrow [1, v-1]$

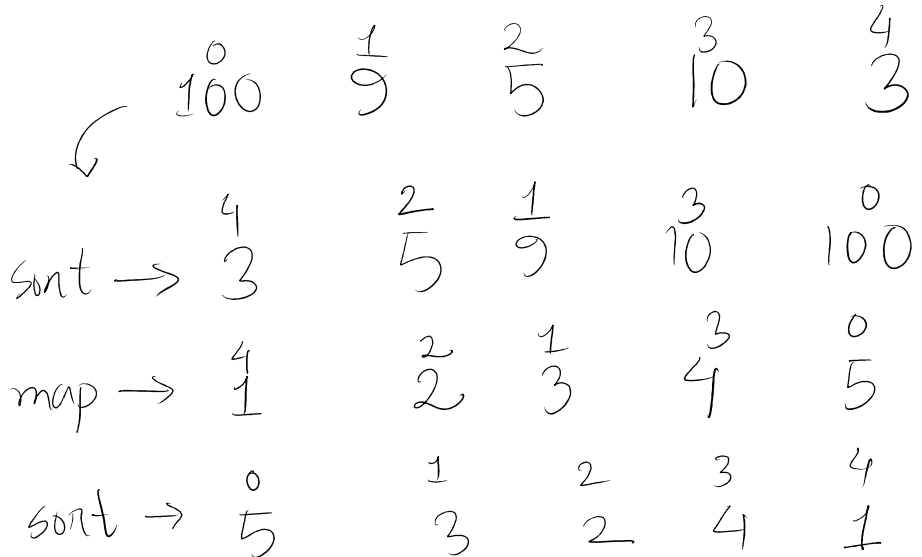


LIS $\rightarrow 1$

LIS $\rightarrow 1, 3$

LIS $\rightarrow 1, 3, 4$

LIS $\rightarrow 1, 2, 4$



sort \rightarrow

map \rightarrow

sort \rightarrow

4. ... find LCS(4, 5)
zxcv[b[n]] 5, 6

$zxcv[b[n]$ 5,6
 $hjgas[b[zxxbzmx]$
 5.

$[z]xcv \rightarrow [z]xcv$
 $b[b]xz \quad b[b]xz$
 $\rightarrow [z]xcv$
 $\rightarrow b[b]xz$