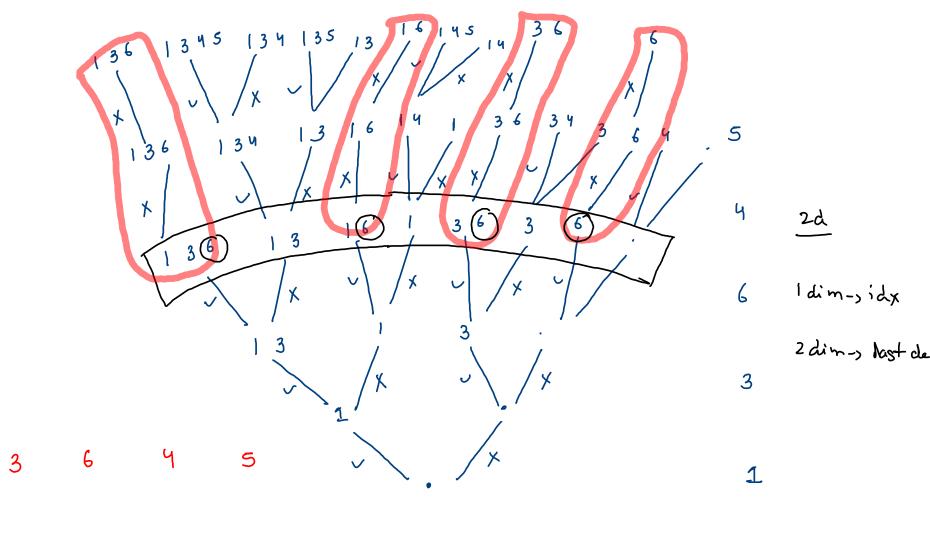
Longest Increasing Subsequence

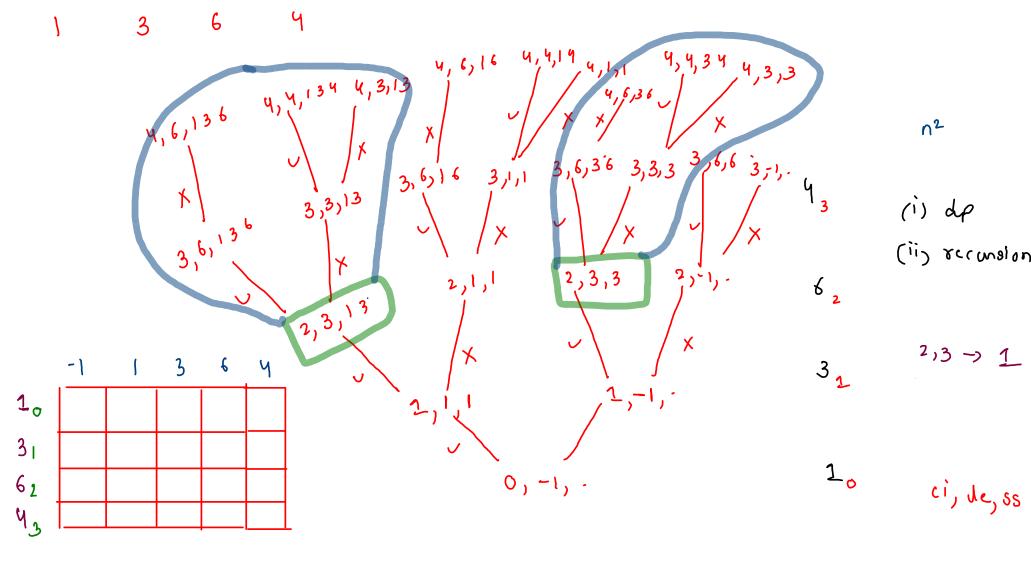
all subseq

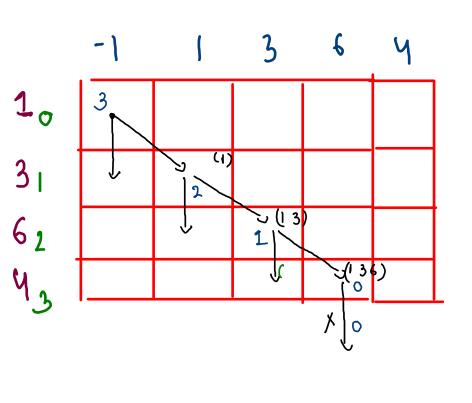
10 22 9 33 21 50 41 60 80 1 2 -> X -> Select

increasing the longest out of x subseq.

in creasing subseq







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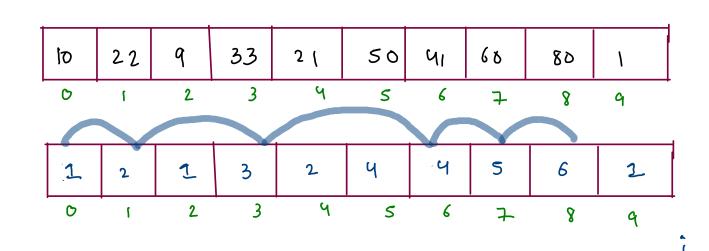
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	2	2	1	3	2	4	Ч	5	6	1
	lσ	10 22	q	10 22 33	5 l	10 22 33 50	10 22 33 41	10 22 33 50 60	10 22 33 50 60 80	1

max den -, 6

```
public static int LIS(int[]arr) {
    int[]dp = new int[arr.length];
    int omax = 0;
    for(int i=0; i < arr.length;i++) {</pre>
        int max = 0;
        for(int j=0; j < i;j++) {
            if(arr[j] < arr[i]) {</pre>
                max = Math.max(dp[j],max);
        dp[i] = max + 1;
        omax = Math.max(omax,dp[i]);
    return omax;
```

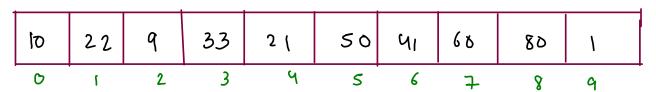


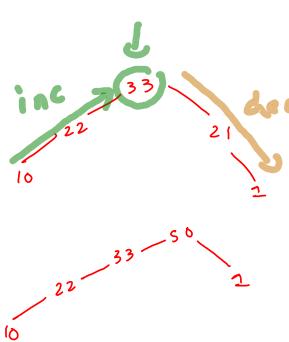
dp(i) -, o to i dom.

omax = 1 2 3 yr 5 6 at i.

NFD	1	110	2	3	100	4	5
·							
dp	1	ftr.	3	6	106	10	15

Longest Bitonic Subsequence





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