

dp = [n]

for (i = 0; i < n; i++) {

int Best of Prev = 0

for (j = i - 1; j >= 0; j--) {

if (arr[i] > arr[j]) {

Best of Prev = Max (Best of Prev, dp[j]);

}

dp[i] = Best of Prev + 1;

}

for (i = 0 → n)

max → dp[i]

[2, 5, 3, 200, 7, 101]

arr =

2	5	3	200	7	101
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1

best of Prev = 3

DP =

{2}	{2, 5}	{2, 3}	{2, 3, 200}	{2, 3, 7}	{2, 3, 7, 101}
1	2	2	3	3	4

1

0

1

2

3

4

5