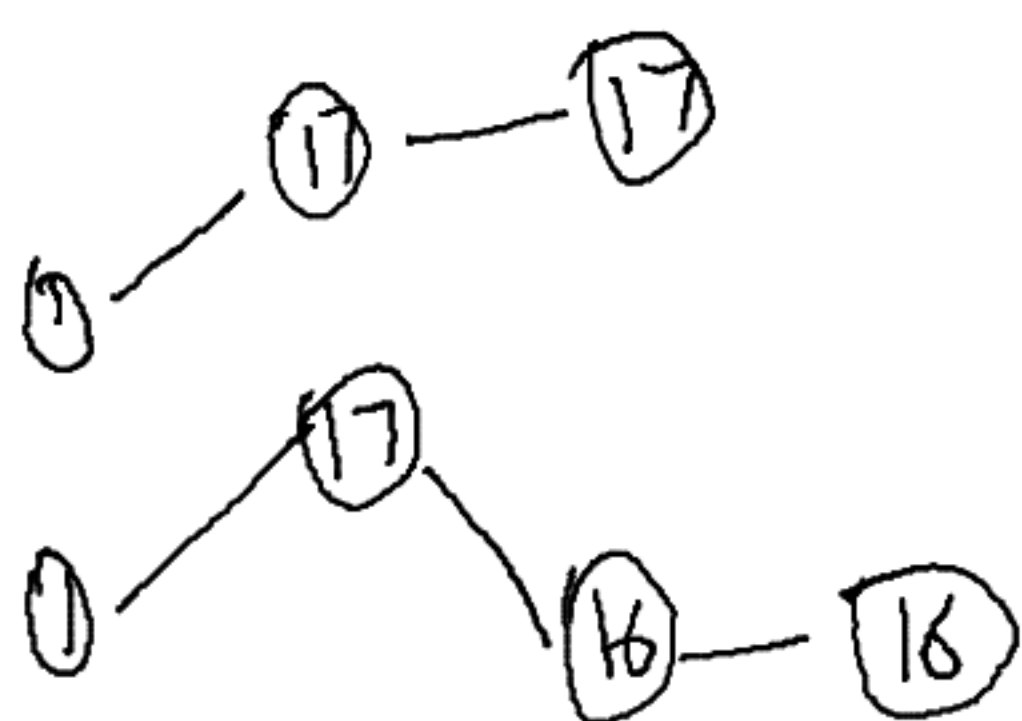
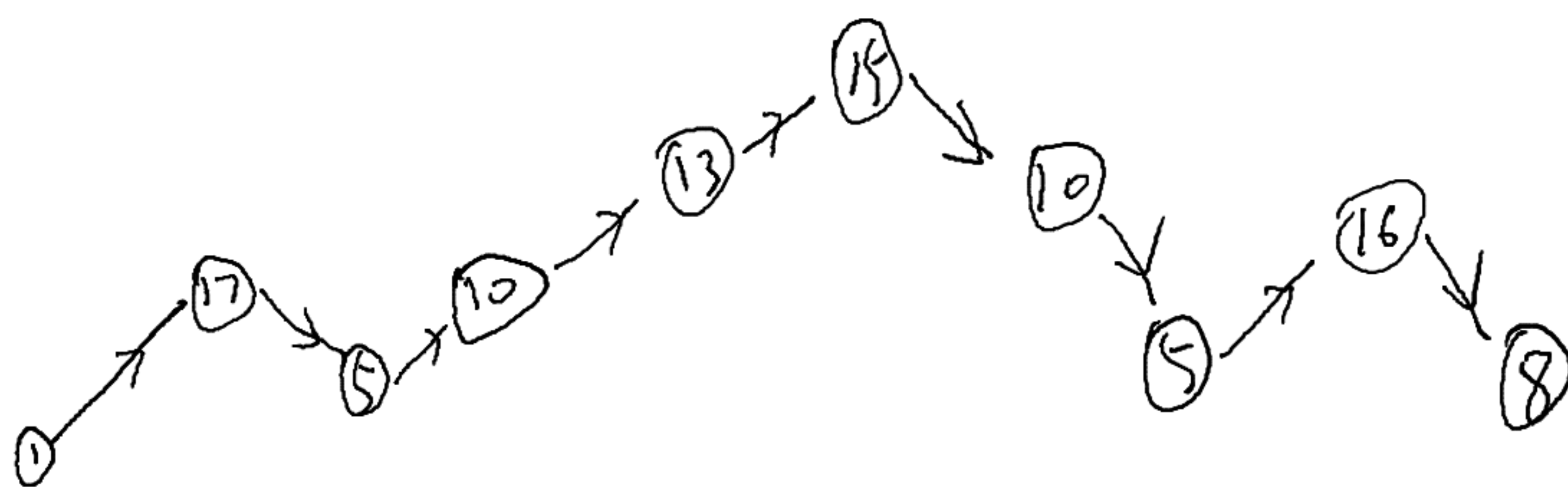


1, 17, 5, 10, 13, 15, 10, 5, 16, 8

1. $O(n^2)$ $dp[n]$ 代表以 n 结尾的最长子序列

$$dp[n] = \begin{cases} dp[m] + \underbrace{(num[n] - num[m]) * (num[m] - num[m-1])}_{\downarrow \text{或}} < 0 \\ m = 1, 2, 3, \dots, n-1 \end{cases}$$

$num[n] \neq num[m]$
 $m=0$ 时.



有几个单调递增, 递减区间.