Graphical user interface, text, application, Teams

Description automatically generated

**Solution:**

class Solution:

    def maxProfit(self, prices: List[int]) -> int:

        l,r,maxVal = 0,1,0

        while r < len(prices):

            if prices[l] < prices[r]:

                maxVal = max(maxVal,prices[r] - prices[l])

            else:

                l = r

            r+=1

        return maxVal

demo = Solution()

demo.maxProfit([7,1,5,3,6,4])

**Output:**

5

**Time Complexity:** O(n)

**Space Complexity:** O(1)