class Solution(object):

def maxProfit(self, prices):

"""

:type prices: List[int]

:rtype: int

"""

if not prices:

return 0

dp = [0 for i in range(len(prices))]

mincost = float("inf")

for i in range(len(prices)):

mincost = min(mincost,prices[i])

dp[i] = prices[i] - mincost

return max(dp) if max(dp)>0 else 0