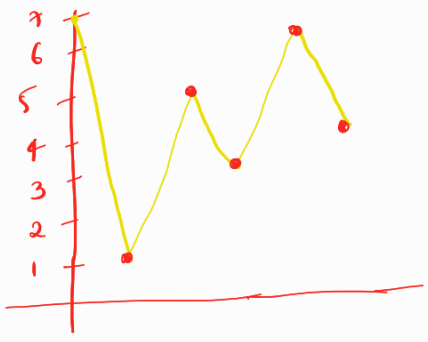
Buy & Sell Stocks

prices = [7, 1, 5, 3, 6, 4].

You are given an array prices where prices[i] is the price of a given stock on the ith day. You want to maximize your profit by choosing a single day to buy one stock and choosing a different day in the future to sell that stock. Return the maximum profit you can achieve from this transaction. If you cannot achieve any profit, return 0.



Profit = selling Price - buying price.

To maximize profit this should be less.

↳ Buying price = + ∞

↳ we need to get minimum value.

Day 1 → as it's day 1 we cant sell any thing.

B.P = 7.

Day 2 ⇒ on 2nd day, stock price is 1, Buying price.

we cant Buy & sell the same day,

So it will be minimum of before days.

↳ B.P = 7, S.P = 1

next step ⇒ BP = min(BP, today's Price)

Day 3 → SP → 5

BP → 1

Profit = 4.

Day 4 → SP → 3, BP → 1, 2

5 → 6, 1, 5

6 →