

Buy & Sell Stocks with Cool down

Profit = Sell - Buy = Sell + (-Buy) = Sell + Buy* where Buy* = -Buy.

	Buy*	Sell	Stocks
	0 1	0 1	
1	Don't buy max(-1, 0-2)	Don't sell max(0, 2+(-1))	[1]
2			[1, 2]
3	(-1, 0-3) for cool down	(1, 3+(-1))	[1, 2, 3]
0	(-1, 1-0)	(2, 0+(-1))	[1, 2, 3, 0]
3	(1, 2-3)	(2, 3+(1))	[1, 2, 3, 0, 3]
1	(1, 2-1)	(4, 1+1)	[1, 2, 3, 0, 3, 1]
6	(1, 4-6)	(4, 6+(1))	[1, 2, 3, 0, 3, 1, 6]
9	(1, 4-9)	(7, 9+(1))	[1, 2, 3, 0, 3, 1, 6, 9]
		10	

Buy 0 → Don't buy

Buy 1 → Buy

Sell 0 → Don't sell

Sell 1 → Sell

1st row: Buy = -(stock price on day 1)

Sell = 0 → no profit so far on selling