

opy = 0 / 13 17

pr

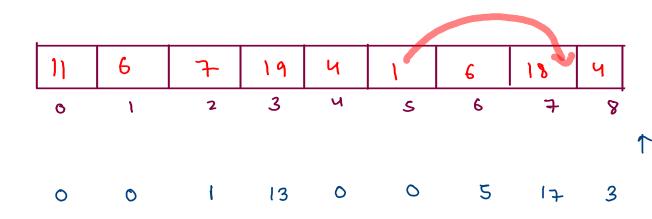
msj (min so jar)
OPY (overall but

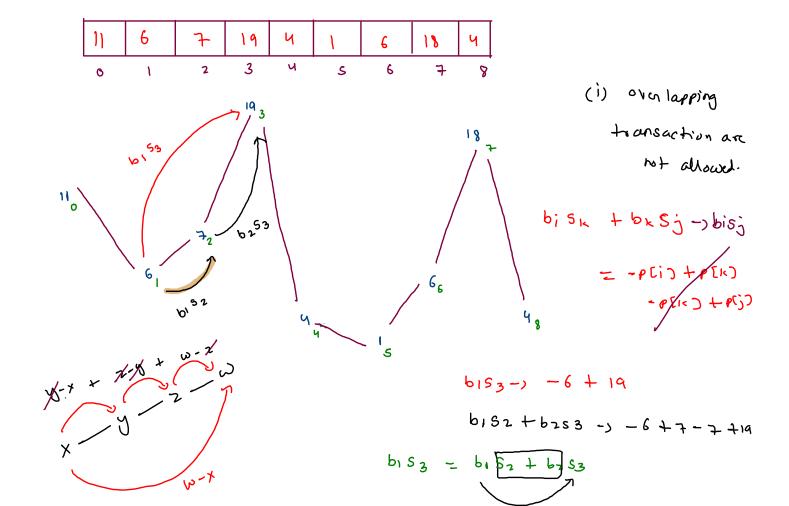
(overally)

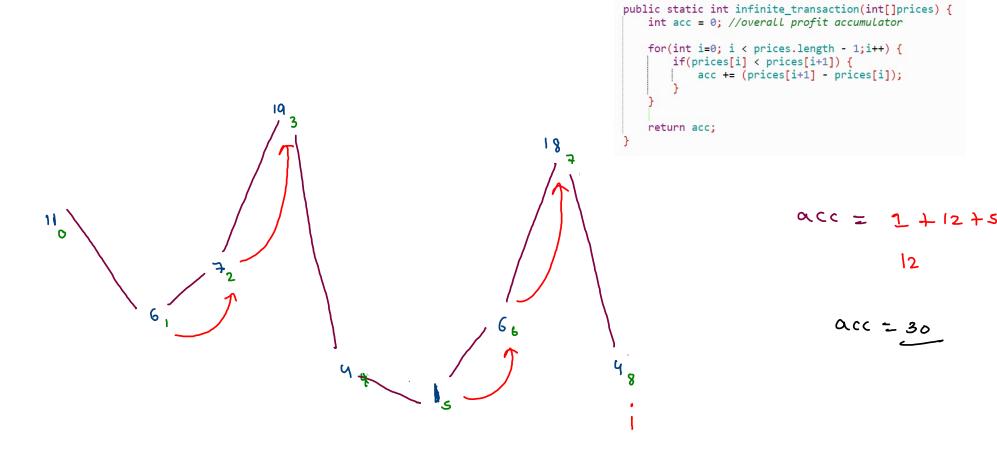
```
public static int one_transaction(int[]prices) {
    int lmsf = Integer.MAX_VALUE; //left min so far
    int opr = 0; //overall best profit

    for(int i=0; i < prices.length;i++) {
        if(prices[i] < lmsf) {
            lmsf = prices[i];
        }
        int pr = prices[i] - lmsf; //ith day is selling day

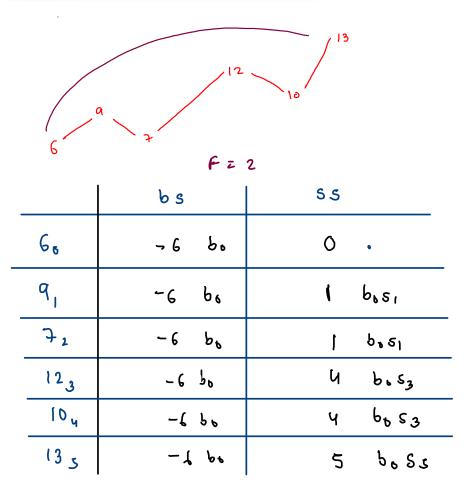
        if(pr > opr) {
            opr = pr;
        }
    }
    return opr;
}
```

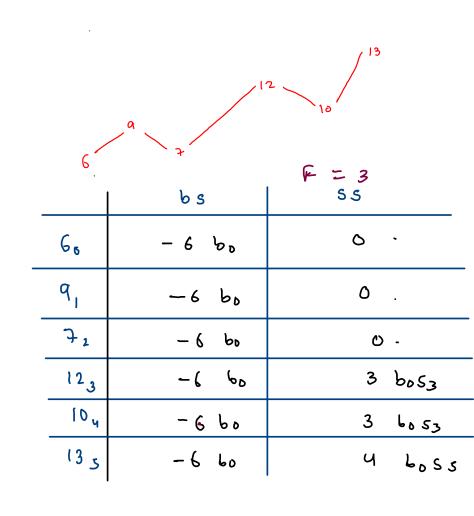






Buy And Sell Stocks With Transaction Fee - Infinite Transactions Allowed





```
-10
                                                  Po
                          100
                                                  6.
                           15,
                                          -10
                           172
                                          -10
                                                  60
                                                   60
                           203
                                           -10
                                          -9 6053bu
                           16 y
                                          -9 5,8364
                           185
                                          -9 b 83b4
                           226
                           20_
                                         -9 60 53 by
                                          -9 bo 53 by
                           229
                                          -9 bo Saby
                            209
                                          -9 b. S3 by
                           2316
                                         -9 bo 53 by
                            250
i [nbsp = max (obsp, ossp-p[i]);

Inssp = max (ossp, obsp + p[i]-jee);
```

buy state

12 10 15 17 20 16 18 22 20 22

20 23 25 3

obsp, ossp

sell state

bo 5,

6052

7 6.83

7 6053

7 6.53

10 6053 6456

10 6053 by S6

10 b. 53 by 56

6053 by56

60 Sz by 516

13 bo s3 by Sn

0

buy state: -> one extra's' -) and at b Sell State: -) no. of b = no. of s.

Jees = 3

```
public static int infinite_transactions_with_fee(int[]prices,int fee) {
   int obsp = -prices[0]; //old buy state profit
   int ossp = 0; //old sell state profit

   for(int i=1; i < prices.length;i++) {
      int nbsp = Math.max(obsp,ossp - prices[i]); //new buy state profit
      int nssp = Math.max(ossp, obsp + prices[i] - fee); //new sell state profit
      obsp = nbsp;
      ossp = nssp;
   }
   return ossp;
}</pre>
```

Jees z 3

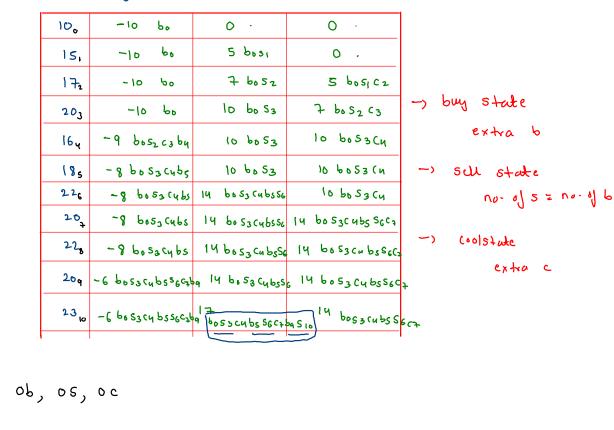
day5	buy stade	sul state
15,	-15	0
lo,	- lo	٥
17,	-10	ч
203	-(0	, j
164	-9	7
185	-9	7
22,	-9	10
267	- 9	10
23 8	-9	11
25 9	-9	13

12 10 15 17 20

16 18 22 20 22

20 23 25

buy state



cooldown

sell state

nb = max (ob, oc - p[i]);
ns = max (os, ob + p[i]);
nc = max (oc, os +o);