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```
public int maxProfit(int[] prices) {
    int n = prices.length;
   int K=2;
   int[][][] dp = new int[n][K+1][2];
   for(int i=0; i<n; i++){
        for(int k=0; k<=K; k++){
           for(int x=0; x<2; x++){
               if(k==0){
                   if(x==0){
                       dp[i][k][x]=0;
                   } else {
                       dp[i][k][x]=(int)(-1e9);
                   if(i==0){
                       if(x==0){
                           dp[i][k][x] = Math.max(a: 0, (int)(-1e9) + prices[i]);
                           dp[i][k][x] = Math.max((int)(-1e9), 0 -prices[i]);
                   } else {
                       if(x==0){
                           dp[i][k][x] = Math.max(dp[i-1][k][0], dp[i-1][k][1] + prices[i]);
                           dp[i][k][x] = Math.max(dp[i-1][k][1], dp[i-1][k-1][0] -prices[i]);
   return dp[n-1][K][0];
```

```
public int maxProfit(int[] prices) {
    int n = prices.length;

    int[] dp0 = new int[n];

    int[] dp1 = new int[n];

    for(int i=0; i<n; i++){
        if(i==0){
            dp0[i] = 0;
            dp1[i] = - prices[i];
            continue;
    }

    dp0[i] = Math.max(dp0[i-1],dp1[i-1]+prices[i]);
    dp1[i] = Math.max(dp1[i-1],dp0[i-1]-prices[i]);
}

    return dp0[n-1];
}</pre>
```