```
2019/02/24.
  const fn = (kTimes, prices) => S
      If (! kTimes 11 1 prices length) {
       Const n = prices. length;
      if (KTimes >= h/z) {
      return greedy (prices);
}
return dp In (k Times, prices);
   function dp In (klimes, prices) {
        const n = prices. length;
        const dp = new Array(n). fill (0);
        let min = pricesto];
        for ( let i = 0; i < n; i++) {
            min = Math. min(min, prices[i]);
         dptil= pricestil-min;

dptil= Math. max (dpti-1), pricestil-min);
```

```
for (let k=2; k <= kTimes; k++) {
             let max Diff = dp(o) - prices(o);
             for ( let i = 0; i < = h; itt) s
get'ditt' before const diff = dp[i] - prices[i];
dpti) changed. dpti) = Math. max(
                        max Diff + prices [i],
                  dp[i-1],
);
maxDiff = Math.max(maxDiff, diff);
         return dp[n-1];
     function greedy (prices) {
         let output =0
         for ( let i=1; ic prices length; i++) {
           if (prices(i) > prices(i-1)) {
               out put += prices[i] - prices[i-1];
        return output;
```

this is the max value of dptj]-ptj]. for j < i.

So we need only I variable to keep tracking this without [ooping j from o to i-1.

dpti] = Math. max (max Diff + pti), dpti-1]);

max Diff = dpti] - pti)

// update max Diff for nexti.