121. Best Time to Buy and Sell Stock

题目描述: <u>https://leetcode.com/problems/best-time-to-buy-and-sell-stock/</u>

给定一个数组,里面存储着每个时刻的股票价值,求什么时候买入什么时候卖出的差价最高,输出最大的差价。

例如:

```
[6,1,3,2,4,7]
```

输出:

6

解题思路:

DP

```
f[i] = max(f[i-1]+a[i]-a[j], 0)
```

代码:

```
for(int i = 1; i < a.size(); i++){
    f[i] = f[i-1] + a[i] - a[i-1];
    if(f[i] < 0)
        f[i] = 0;
}
int max = 0;
for(int i = 1; i < f.size(); i++){
    if(f[i] > max)
        max = f[i];
}
return max;
}
```