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Leetcode May Challenge DAY: 19

1. Python

class StockSpanner(object):

def __init__(self):

self.st=[]

self.d=0

def next(self, price):

"""

:type price: int

:rtype: int

"""

l=-1

while self.st and self.st[-1][0]<=price:

self.st.pop()

if self.st:

l=self.st[-1][-1]

ans=self.d-l

self.st.append((price,self.d))

self.d+=1

return ans

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2. C++

```
class StockSpanner {
public:
    stack<int> prices;
    stack<int> index;
    int span;
    StockSpanner() {
        span=0;
    }
    int next(int price) {
        span=1;
        while(prices.size()!=0 && prices.top()<=price){
            span+=index.top();
            prices.pop();
            index.pop();
        }
        prices.push(price);
        index.push(span);
        return span;
    }
};
```



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3. JAVA

```
class StockSpanner {  
    Stack<int[]> st = new Stack<>();  
    int idx = 0;  
    public StockSpanner() {  
        st.push(new int[]{-1, Integer.MAX_VALUE});  
    }  
  
    public int next(int price) {  
        while (st.peek()[1] <= price) st.pop();  
        int[] top = st.peek();  
        st.push(new int[]{idx, price});  
        return idx++ - top[0];  
    }  
}
```