

## 75 Days of Code

### Day 75

Problem no : [901. Online Stock Span](#)

Design an algorithm that collects daily price quotes for some stock and returns the span of that stock's price for the current day.

The span of the stock's price in one day is the maximum number of consecutive days (starting from that day and going backward) for which the stock price was less than or equal to the price of that day.

For example, if the prices of the stock in the last four days is [7,2,1,2] and the price of the stock today is 2, then the span of today is 4 because starting from today, the price of the stock was less than or equal 2 for 4 consecutive days.

Also, if the prices of the stock in the last four days is [7,34,1,2] and the price of the stock today is 8, then the span of today is 3 because starting from today, the price of the stock was less than or equal 8 for 3 consecutive days.

Implement the StockSpanner class:

**StockSpanner()** Initializes the object of the class.

**int next(int price)** Returns the span of the stock's price given that today's price is price.

**Example 1:**

**Input**

```
["StockSpanner", "next", "next", "next", "next", "next", "next", "next"]  
[[], [100], [80], [60], [70], [60], [75], [85]]
```

**Output**

**[null, 1, 1, 1, 2, 1, 4, 6]**

### **Explanation**

```
StockSpanner stockSpanner = new StockSpanner();  
stockSpanner.next(100); // return 1  
stockSpanner.next(80); // return 1  
stockSpanner.next(60); // return 1
```

```

class StockSpanner {
    private prices= [];
    private spans =[];
    constructor() {

    }

    next(price: number): number {
        let span: number = 1;
        while (this.prices.length > 0 && price >= this.prices[this.prices.length - 1]) {
            span += this.spans.pop() || 0;
            this.prices.pop();
        }
        this.prices.push(price);
        this.spans.push(span);
        return span;
    }
}

```



**Shubham Agrahari**  
Oct 11, 2023 22:13



Details

+ Solution

TypeScript



Runtime **227 ms**

Beats **83.97%**



Memory **60.4 MB**

Beats **74.81%**

Click the distribution chart to view more details

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Solved

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class.

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</> Code

TypeScript Auto

```
10 while (this.prices.length > 0 && price >= this.prices[this.prices.length-1])  
11   span += this.spans.pop() || 0;  
12   this.prices.pop();  
13 }  
14 this.spans.push(span);  
15 this.spans.push(span);  
16 return span;  
17  
18  
19
```

Congratulations!

You just solved all the problems from LeetCode 75!  
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Testcase Result

Accepted

Runtime

227 ms

Beats 83.97%

Details

Memory

60.43 MB

Beats 74.81% of users

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