

## 901. Online Stock Span

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Medium Topics Companies
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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

- 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
- 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 beca

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
stockSpanner.next(70); // return 2
stockSpanner.next(60); // return 1
stockSpanner.next(75); // return 4, because the last 4 prices (including today's price of 75) were stockSpanner.next(85); // return 6
```

## Constraints:

- 1 <= price <=  $10^5$
- At most 10<sup>4</sup> calls will be made to next.

Seen this question in a real interview before? 1/4

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Yes No

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