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**Algorithm** Stock Span

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**Ensure:** One Based Indexing

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1: function Calculate_Stock_Span(price)
  ▷ span[i] denotes the span of the price of stock at the i – th day

2:   len ← price.length
3:   for i = 1 to len do
4:     while stack is not empty, and price[stack.top] ≤ price[i] do
5:       stack.pop
6:     end while

7:     if stack is not empty, then
8:       span[i] ← (i – stack.top)
9:     else
10:      span[i] ← i                                     ▷ One Based Indexing

11:    stack.push(i)
12:  end for

13: return span
```

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