
Algorithm Stock Span

Ensure: One Based Indexing

```
1: function Calculate_Stock_Span(prices, len)  
    $\triangleright$  span[i] denotes the span of the price of stock at the i – th day  
  
2:   for i = 1 : len do  
  
3:     while stack is not empty, do  
4:       if price[stack.top] <= price[i] then  
5:         stack.pop  
6:       else  
7:         Break Loop  
  
8:       if stack is not empty, then  
9:         span[i]  $\leftarrow$  (i – stack.top)  
10:      else  
11:        span[i]  $\leftarrow$  (i + 1)  
12:        stack.push(i)  
13:      end for  
  
14:  return span
```
