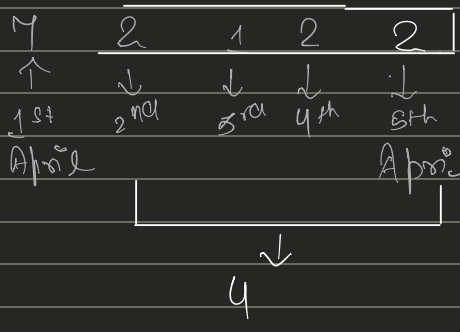
Online Stock Span =>

(Monotonic Stack)

i/p =>



ex 2 => 7 | 34 | 1 | 2 | 8

o/p => 5

ex 3 => 100, 80, 60, 70, 60, 75, 60, 75, 85

M-1 -> Vector

Vector

① -> 100 -> Null
② -> 80 -> 1
③ -> 60 -> 1
④ -> 70 -> 2
⑤ -> 60 -> 1
⑥ -> 75 -> 4
⑦ -> 85 -> 6

Price

100

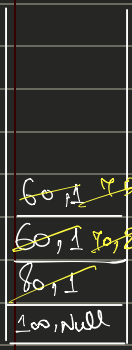
Vector

100	80	60	70	60	75	85

TC = $O(n^2)$

M-2 -> Stack ->

=> 100, 80, 60, 70, 60, 75, 85




```
while (st.top()->price ≤ price)
{
    span += st.top()->span
    st.pop()
}
st.push(price, span)
```

Max Pop / Push -> n

TC = Space = O(n)