

Stock Span Problem

hr din k stock given h aur usse km aur equal jo bhi stock h uske pehle jo consecutive h uska count return krna h.

iske liye hm find krenge nearest left jo greater h uska index and store krlenge.

Current index - stored index of nearest greater on left will give us the ans.

Given a list of stocks, find the count of consecutive stocks before any stock that has a quantity less than or equal to the current stock.

To do this, we will find the index of the nearest stock on the left that has a greater quantity and store it.

The current index minus the stored index of the nearest greater on the left will give us the answer.

```
class Solution
{
public:
//Function to calculate the span of stock's price for all n days.
vector<int> calculateSpan(int price[], int n)
{
// Your code here
stack<pair<int,int>> st;
vector<int>ans;
for(int i=0;i<n;i++)
{
if(st.empty())
{
ans.push_back(-1);
}
else
{
if(st.top().first>price[i])
{
ans.push_back(st.top().second);
}
else
{
while(!st.empty() && st.top().first<=price[i])
{
st.pop();
}
if(st.empty())
{

```

```

        ans.push_back(-1);
    }
    else
    {
        ans.push_back(st.top().second);
    }
}
}
st.push({price[i],i});
}
for(int i=0;i<n;i++)
{
    ans[i]=i-ans[i];
}
return ans;
}
};

```