

# CSE211 DATA STRUCTURES

FALL 2024

## LAB WORK II.4

### Q1: calculateSpan

Calculate the number of consecutive days leading up to the current day on which the stock price was less than or equal to the current day's price.

**Concepts:** Arrays, stacks.

#### Hints for Solving:

- Iterate through each stock price.
- Use a stack to keep track of indices with increasing stock prices.

### Q2: isAdvancedBracketMatching

Ensure that all types of brackets are correctly matched and nested within a given string.

**Concepts:** Stacks, string parsing.

#### Hints for Solving:

- Scan through the string to identify brackets.
- Use a stack to match opening and closing brackets.

### Notes:

- Do not make any changes to the files.
- Do your implementations in only “// YOUR SOLUTION SHOULD BE WRITE IN HERE.” sections.
- Any kind of cheating will not be tolerated.
- If the logic of your solution is right, your output should be like this one.

```
Vector:      100 80 60 70 60 75 85      Result: 1 1 1 2 1 4 6
HTML Content: <html><body></body></html>      Result: True
Expression:   (1+(4+5+2)-3)+(6+8)      Result: True
```