Week 3

Question 1:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_1.py"
8 3 2
73 74 75 71 69 72 76 73
NEXT 3
6
COUNT 0 7
7
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_1.py"
5 3 2
50 47 44 41 38
NEXT 1
2
COUNT 0 4
4
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_1.py"
5 2 2
30 32 34 36 38
NEXT 0
1
COUNT 0 4
4
```

Question 2:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_2.py"
6 3 100
30 50 60 40 70 80
1 0 1 0 0 1
Minimum boats = 4
CANPAIR 0 1
Yes
CANPAIR 0 2
No
REMAINING 2
2
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_2.py"
4 2 100
40 50 30 60
0 0 0 0
Minimum boats = 2
CANPAIR 0 3
Yes
REMAINING 1
2
```

Question 3:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_3.py"
3 9 2
S 1 2
S 1 3
B 2 5
B 3 9
F 1
2 1
U 1 2
B 3 6
F 1
3 2
F 2
1
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_3.py"
4 10 2
B 1 3
B 2 6
S 3 1
S 3 2
F 3
2 1
U 3 1
B 1 9
B 2 12
F 3
4 2
F 4
EMPTY
```

Question 4:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_4.py"
String: cbaebabacd
Pattern: abc
Pattern found at: [0, 6]
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "e
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_4.py"
String: abab
Pattern: ab
Pattern found at: [0, 1, 2]
```

Question 5:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "e
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_5.py"
String: BBABCBCAB
Longest Palindrome Subsequence: BACBCAB
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_5.py"
String: babad
Longest Palindrome Subsequence: aba
```

Question 6:

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_6.py"
Length: 6
2 1 2 5 3 2
Suspicious Number: 2
```

```
PS E:\NED University\Github\winter-activity-Logic-Forge-CIS-Community> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python313/python.exe "e
:/NED University/Github/winter-activity-Logic-Forge-CIS-Community/Week 3/challenge_6.py"
2 1 2 5 3 2
Suspicious Number: 2
```