

Challenge 1

The screenshot shows a Visual Studio Code interface with the following details:

- EXPLORER** sidebar: Contains files like `~$cument.rtf`, `Challenge1_TheSmart...`, `Challenge2_Emergency...`, `Document.rtf`, and `README.md`.
- Challenge1_TheSmartCityTemperature.py** file open in the editor:

```
2 N, K, Q = map(int, input().split())
3 temps = list(map(int, input().split()))
4
5 alert = [0] * N
6
7 for i in range(N):
8     for j in range(i + 1, N):
9         if temps[j] >= temps[i] + K or temps[j] <= temps[i] - K:
10            alert[i] = j
11            break
12 for _ in range(Q):
13     parts = input().split()
14
15     if parts[0] == "NEXT":
16         X = int(parts[1])
17         if alert[X] == 0:
18             print("No Alert")
19         else:
20             print(alert[X])
21
22     elif parts[0] == "COUNT":
23         print(len(alert))
```

- TERMINAL**: Shows the command and its output.

```
PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/Challenge1_TheSmartCityTemperature.py
8 3 4
73 74 75 71 69 72 76 73
NEXT 0
4
NEXT 3
6
COUNT 0 7
7
COUNT 4 7
3
```

Challenge 2

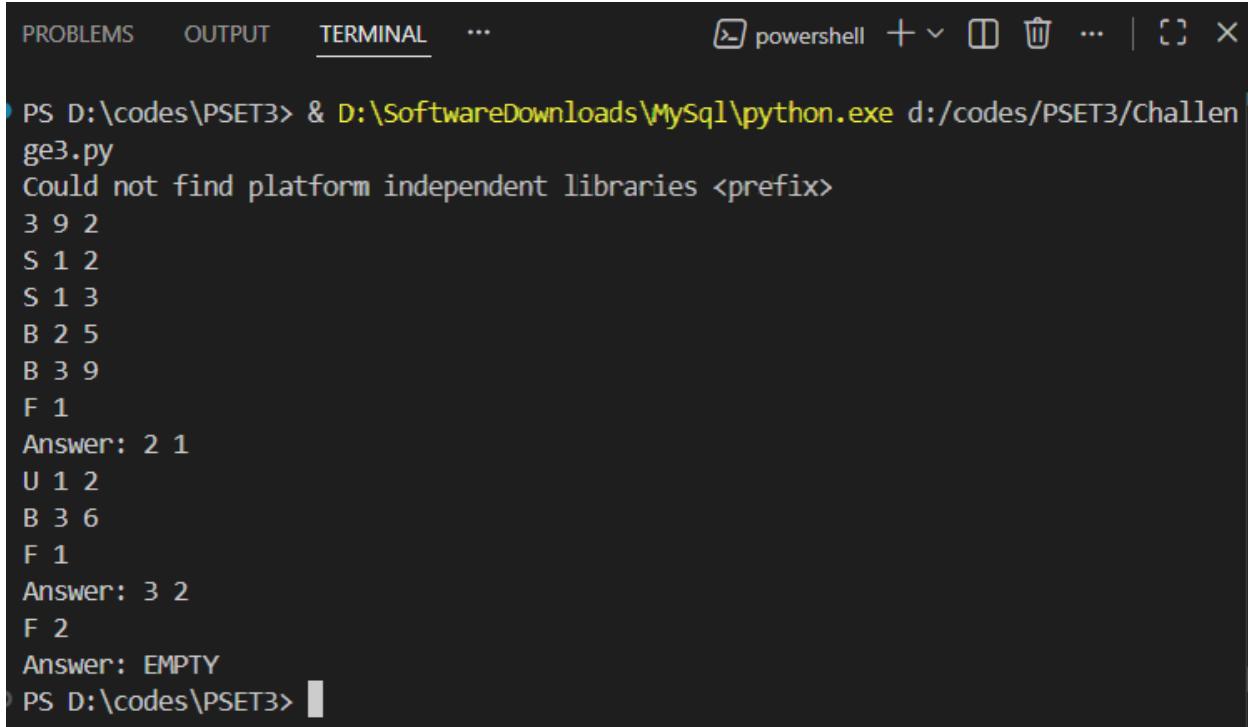
The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows a folder structure for "PSET3" containing files: "Challenge1_TheS... U", "Challenge2_Emer... U", and "README.md".
- Code Editor:** Displays the content of "Challenge2_EmergencyEvacuationBoat.py". The code handles input commands and prints "No" or "Yes" based on certain conditions.
- Terminal:** Shows the command-line output of running the script. It includes error messages about missing libraries, sample inputs, and the resulting "Yes" output.

```
43 min_boats = boats
44
45
46 print(f"Minimum boats = {min_boats}")
47
48
49 for _ in range(Q):
50     cmd = input().split()
51
52     if cmd[0] == "CANPAIR":
53         x, y = int(cmd[1]), int(cmd[2])
54
55         if x == y:
56             print("No")
57         elif weights[x] + weights[y] > limit:
58             print("No")
59         elif priority[x] == 1 and priority[y] == 1:
60             print("No")
61         else:
```

```
● PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/challen
ge2_EmergencyEvacuationBoat.py
Could not find platform independent libraries <prefix>
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 D:\codes\PSET3>
```

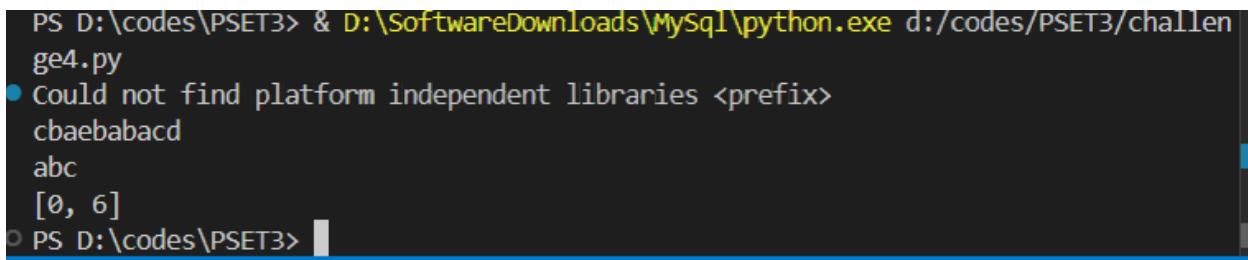
Challenge 3



PROBLEMS OUTPUT TERMINAL ...

PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/challenge3.py
Could not find platform independent libraries <prefix>
3 9 2
S 1 2
S 1 3
B 2 5
B 3 9
F 1
Answer: 2 1
U 1 2
B 3 6
F 1
Answer: 3 2
F 2
Answer: EMPTY
PS D:\codes\PSET3>

Challenge 4



PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/challenge4.py
● Could not find platform independent libraries <prefix>
cbaebabacd
abc
[0, 6]
PS D:\codes\PSET3>

Challenge 5

```
PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/Challenge5.py
Could not find platform independent libraries <prefix>
● babad
bab
PS D:\codes\PSET3>
○ PS D:\codes\PSET3>
```

Challenge 6

```
PS D:\codes\PSET3> & D:\SoftwareDownloads\MySQL\python.exe d:/codes/PSET3/Challenge6.py
● Could not find platform independent libraries <prefix>
2 1 2 5 3 2
2
○ PS D:\codes\PSET3>
```