Python Practice - Day-10 - 20250407

Problem Statment:

Problem: Detect Consecutive Days of High Temperature

You're given a list of daily temperature readings from a sensor. Your task is to detect all consecutive sequences of days where the temperature was above 30°C for at least 3 days in a row.

Input Format:

First input: An integer N – the number of days.

Next N lines: One temperature reading (as an integer) per line.

Output Format:

For every valid sequence, print the temperatures in that sequence on a new line, space-separated.

Sample Input:

```
10
29
32
33
34
28
31
35
36
37
30
```

Sample Output:

```
32 33 34
31 35 36 37
```

Solution:

```
N = int(input())

ls = []
```

```
for i in range(N):
    x = int(input())
    ls.append(x)

seq_dict = {}

i = 0

while i < N:
    if ls[i] > 30:
        start = i
        end = -1
        for j in range(i + 1, N):
            if ls[j] < 31:
                end = j
                break
        if end != -1 and end - start > 2:
            seq_dict[start] = end - start
            i = end
        else:
            i += 1
    else:
        i += 1

final_ls = []

for k, v in seq_dict.items():
    temp = ls[k:k + v]
    final_ls.append(temp)

print(final_ls)
```