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13.35 Find Plateaus (Loops - Medium)

Write a function **find_plateaus** that receives a list of integers as parameters.

Your function should find and return a list of plateaus, which are numbers that are equal to both of its neighbors.

IMPORTANT NOTES:

- the first and last values can **not** be plateaus;
- the plateaus should be in the order they appear in the original list;
- the same value might be a plateau in multiple places in the original list;
- there might be no plateaus, in which case you should simply return an empty list.

Example 1:

If the function call is:

```
find_plateaus([1, 2, 2, 2, 1])
```

You should return `[2]`, because:

- `2 == 2` and `2 == 2`.

Example 2:

If the function call is:

```
find_plateaus([10, 2, 20, 4, 4, 4, 5, 8, 5, 5, 5, 5])
```

You should return `[4, 5, 5]`, because:

- `4 == 4` and `4 == 4`;
- `5 == 5` and `5 == 5`;
- `5 == 5` and `5 == 5`.

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```
1 from test_data import test_list
2
3 #Using test_list, write your code below
4 def find_plateaus(numbers):
5     new_data = []
6     for index, number in enumerate(numbers[1:-1]):
7         if number == numbers[index + 1]:
8             new_data.append(number)
9     return new_data
10
11 print(find_plateaus(test_list))
```

Develop mode**Submit mode**

When done developing your program, press the **Submit for grading** button below. This will submit your program for auto-grading.

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1:Verify test_list = [1, 2, 2, 2, 1] prints [2]. ^

0 / 1

Input 1, 2, 2, 2, 1

Your output *Your program produced no output*

Expected output [2]

2:Verify test_list = [10, 2, 20, 4, 4, 4, 5, 8, 5, 5, 5, 5] prints [4, 5, 5]. ^

0 / 1

Input 10, 2, 20, 4, 4, 4, 5, 8, 5, 5, 5, 5

Your output *Your program produced no output*

Expected output [4, 5, 5]

3:Test with anonymous inputs ^ 0 / 3

Results hidden by your instructor

4:Test with anonymous inputs ^ 0 / 3

Results hidden by your instructor

5:Test with anonymous inputs ^ 0 / 3

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