Students:

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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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Current file: **main.py** Load default template...

```
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]) and (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.

Submit for grading

Coding trail of your work What is this?

```
11/5 S0--------0-----8,0,8 min:21
```

Latest submission - 1:50 PM PDT on 11/05/22 Total score: 8 / 11

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

Input `1, 2, 2, 2, 1`

Your output `[2]`

2:Verify test_list = [10, 2, 20, 4, 4, 4, 5, 8, 5, 5, 5, 5] prints [4, 5, 5]. 1 / 1

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

Your output `[4, 5, 5]`

3:Test with anonymous inputs 3 / 3

Results hidden by your instructor

4:Test with anonymous inputs 3 / 3

Results hidden by your instructor

5:Test with anonymous inputs 0 / 3

Results hidden by your instructor

Previous submissions

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1:42 PM on 11/5/22	0 / 11	View
1:21 PM on 11/5/22	0 / 11	View

Trouble with lab?