Lab: Decorators

Problems for in-class lab for the Python OOP Course @SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/1946

1. Number Increment

You will be provided with the following code

```
def number increment(numbers):
    def increase():
        # TODO: Implement
    return increase()
```

Complete the code so it works as expected

Examples

Test Code	Output	
<pre>print(number_increment([1, 2, 3]))</pre>	[2, 3, 4]	

2. Vowel Filter

You will be provided with the following code

```
def vowel filter(function):
    def wrapper():
        # TODO: Implement
    return wrapper
```

Complete the code so it works as expected

Examples

Test Code	Output
<pre>@vowel_filter def get_letters(): return ["a", "b", "c", "d", "e"]</pre>	["a", "e"]
<pre>print(get_letters())</pre>	

3. Even Numbers

You are given the following code

```
def even numbers(function):
    def wrapper(numbers):
        # TODO: Implement
    return wrapper
```

Complete the code so it works as expected

















Examples

Test Code	Output
<pre>@even_numbers def get_numbers(numbers): return numbers print(get_numbers([1, 2, 3, 4, 5]))</pre>	[2, 4]

4. Multiply

You are given the following code

```
def multiply(times):
    def decorator(function):
        # TODO: Implement
    return decorator
```

Complete the code so it works as expected

Examples

Test Code	Output	Comment
<pre>@multiply(3) def add_ten(number): return number + 10 print(add_ten(3))</pre>	39	First we add 3 to 10 = 13 and then we multiply the result by 3: 13 * 3 = 39
<pre>@multiply(5) def add_ten(number): return number + 10 print(add_ten(6))</pre>	80	(6 + 10) * 5 = 80













