def show_output():
    total = 0
    for number in range(9, 20):
        if number % 2 == 0 or number % 3 == 0:
            total += 1

    print(total)

def main():
    show_output()

main()
Complete the for...in loop so that the output is:

```
for number in [7, 10, 13, 16, 19, 22]:
    print(number, end = " ")
print()
```

Complete the for...in loop so that the output is:

```
for value in [30, 25, 20, 15, 10, 5, 0, -5, -10]:
    print(value, end = " ")
print()
```
An amount doubles each year. Using a for...in loop complete the `double_each_year()` function which prints the growth of the parameter value, (start_amt) for the given number of years (num_years). The first line printed by the function is the starting amount.

Each line of the output is numbered starting from the number 1. The function returns the final amount.

```python
def double_each_year(start_amt, num_years):
    
    def main():
        print("After 4 years:", double_each_year(24, 4))
        print("After 3 years:", double_each_year(235, 3))
        print("After 5 years:", double_each_year(15, 5))
    
    main()
```

Starting with: 24
1: 48
2: 96
3: 192
4: 384
After 4 years: 384

Starting with: 235
1: 470
2: 940
3: 1880
After 3 years: 1880

Starting with: 15
1: 30
2: 60
3: 120
4: 240
5: 480
After 5 years: 480
Using a for...in loop complete the `print_series()` function which prints a series of numbers starting from the parameter value, `start_num`. The second number printed is the first number plus 1, the third number is the second number plus 2, the fourth number is the third number plus 3, and so on, e.g., a series of 8 numbers starting from the number 2 is:

```
2 3 5 8 12 17 23 30
+1 +2 +3 +4 +5 +6 +7
```

def print_series(start_num, how_many):

def main():
    print_series(2, 8)
    print_series(5, 12)
    print_series(16, 9)

main()
Convert - while loop ↔ for...in loop

- Convert the following while loop into a for...in range(...) loop:

```python
counter = 12
while counter < 260:
    print(counter)
    counter = counter + 10
```

- Convert the following for...in range(...) loop into a while loop:

```python
for num in range(45, 3, -5):
    print(num * 2)
```
Complete the function

- The `get_series_sum()` function returns the sum of the given number of terms of the series:

\[
\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \cdots
\]

e.g., `get_series_sum(4)` returns the sum of one half plus one quarter plus one eighth plus one sixteenth. Complete the function

```python
def get_series_sum(num_terms):
    # Your implementation here

def main():
    for num in range(1, 10):
        comment = "Terms: " + str(num) + " Sum:"
        print(comment, get_series_sum(num))
main()
```