Solution Review: Even Squares Not Divisible By Three
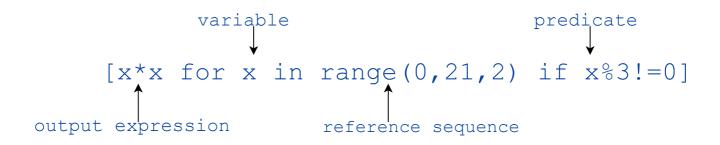
This lesson gives a detailed review of how to make a list of even squares using a list comprehension that aren't divisible by three.

Solution Review: List Comprehension With Predicate

Use a list comprehension that iterates over a range of 0-21, increments the number in the range by 2 and squares each remaining number. Also, use a predicate clause to check if the squared number is not divisible by 3, then put the number in the list.
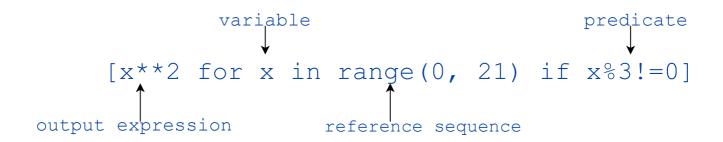

The following python code helps to make a list containing even squares that aren't divisible by three:

```python
def getSquare():
    l1 = [x*x for x in range(0, 21, 2) if x % 3 != 0]
    return l1

print(getSquare())
```
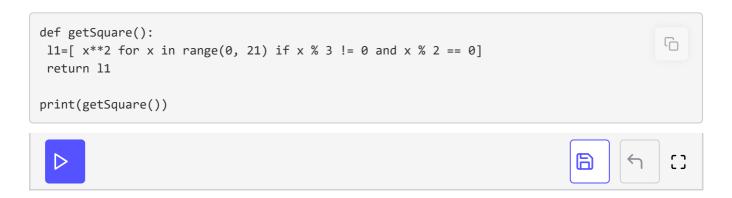
Solution 2: List Comprehension With Predicate

Use a list comprehension that iterates over a range of 0-21, takes the power of each number by 2. Also, use a predicate clause to check if the squared number is not divisible by 3, and it is divisible by 2, then put the number in the list.

$$\text{[x**2 for x in range(0, 21) if x\%3!=0]}$$

variable · *predicate* · *output expression* · *reference sequence*

The following python code helps to make a list containing even squares that aren't divisible by three:

```python
def getSquare():
    l1=[ x**2 for x in range(0, 21) if x % 3 != 0 and x % 2 == 0]
    return l1

print(getSquare())
```

Now that you have an insight of list comprehension, let's move on to the quiz.