Practice Quiz: For Loops
Practice Quiz • 20 min

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While Loops ✓

✓ **Video:** Introduction to Loops
1 min

✓ **Video:** What is a while loop?
3 min

✓ **Reading:** Anatomy of a While Loop
10 min

✓ **Video:** More while Loop Examples
3 min

○ **Video:** Why Initializing Variables Matters
3 min

✓ **Reading:** Common Pitfalls With Variable Initialization
10 min

✓ **Video:** Infinite Loops and How to Break Them
4 min

✓ **Reading:** Infinite loops and Code Blocks
10 min

✓ **Practice Quiz:** Practice Quiz: While Loops
5 questions

For Loops

✓ **Video:** What is a for loop?
5 min

✓ **Reading:** For Loops Recap
10 min

✓ **Video:** More for Loop Examples
4 min

Congratulations! You passed!

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PRACTICE QUIZ • 20 MIN

Practice Quiz: For Loops

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100%

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Grade
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TOTAL POINTS 5

1. How are while loops and for loops different in Python?   **1 / 1 point**

   ○ While loops can be used with all data types, for loops can only be used with numbers.

   ○ For loops can be nested, but while loops can't.

   ⦿ While loops iterate while a condition is true, for loops iterate through a sequence of elements.

   ○ While loops can be interrupted using break, for loops using continue.

   ✓ **Correct**
   You got it! We can use while loops when we want our code to execute repeatedly while a condition is true, and for loops when we want to execute a block of code for each element of a sequence.

2. Fill in the blanks to make the factorial function return the factorial of n. Then, print the first 10 factorials (from 0 to 9) with the corresponding number. Remember that the factorial of a number is defined as the product of an integer and all integers before it. For example, the factorial of five (5!) is equal to 1*2*3*4*5=120. Also recall that the factorial of zero (0!) is equal to 1.   **1 / 1 point**

```
1  def factorial(n):
2      result = 1
3      for x in range(1,n+1):
4          result =result *x
5      return result
```

Run