Test Your Knowledge 1

Let's take a small quiz!

We'll cover the following

- Quiz on Recursion Fundamentals

Quiz on Recursion Fundamentals

This Quiz will take maximum 10 minutes.

1 Which is the most appropriate definition for recursion?

A) A function that calls another function.

Correct Answer

B) A function that calls another execution instance of the same function.

C) A class method that calls another class method.

D) An in-built method that is automatically called.

2 Problems that can only be defined recursively are solved using recursion.

A) True

Correct Answer

B) False

3 Which of the following statements is false?

A) Every recursive function must have a base case.

B) Infinite recursion can occur if the base case is not properly defined.

C) A recursive function makes the code easier to understand.

Correct Answer

D) Every recursive function must have a return value.

4 Recursion and iteration utilize the same programming approach.

A) True

Correct Answer

B) False

5 Fill in the missing line:

```
def fact(num) :
    if num == 0 :
        return 1
    else:
        return _________
```

Correct Answer

A) `num * fact(num - 1)`

B) `(num - 1) * (num - 2)`

C) `num * (num - 1)`

D) `fact(num) * fact(num - 1)`

6 Recursion is the process of describing an action in terms of itself.

Correct Answer

A) True

B) False

7 A recursive function may or may not have a recursive case.

A) True

Correct Answer

B) False

8 Stacks in computing architectures are regions of memory where data is added or removed in a last-in-first-out (LIFO) manner.

Correct Answer

A) True

B) False

9 A factorial is the product of an integer and all the positive integers greater than that number.

A) True

Correct Answer

B) False

10 In Mutual Recursion, the calling function directly calls another instance of itself.

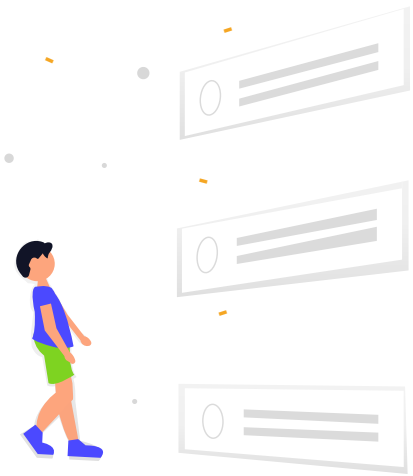
A) True

Correct Answer

B) False

SUMMARY

Correct	0
Incorrect	0
Unanswered	10



Seems like you skipped few questions. Would you like to try again?

Retake Quiz

In the next lesson, we will introduce the iterative method of problem-solving.

Back

Understanding a Recursive Problem

Next

Overview of Iterative Functions

Completed