Quiz

In this lesson, you will be quizzed on your knowledge of recursion and the basics of dynamic programming.

Quiz

1

```
def func(num):
    if num <= 0:
        return 0
    elif num % 2 == 0:
        return num + func(num - 2)
    else:
        return num + func(num - 1) + 1
```

`func` function employs binary recursion

2

```
def func(num):
        return func(num - 1) + num
```

What would `func(5)` return:

3

```
def func(str):
        if len(str) >= 1:
                print(str[0])
        func(str[1:])
```

What kind of recursion is this? (you can select multiple correct answers)

4 Simple recursion is more related to which of the following words?

5 All the algorithms that use loops can be converted into recursive algorithm

6 Recursion is more similar to which of the following two approaches:

7 After employing principles of dynamic programming, the Fibonacci numbers' algorithm's complexity drops from exponential to:

8

Identify the scenario where dynamic programming is more likely to work.

9

Finding all permutations of a string has which of the following properties:

(you can select multiple correct answers)

Retake Quiz

Alright! That was it for this chapter, in the next chapter we will dig deeper into top-down dynamic programming.