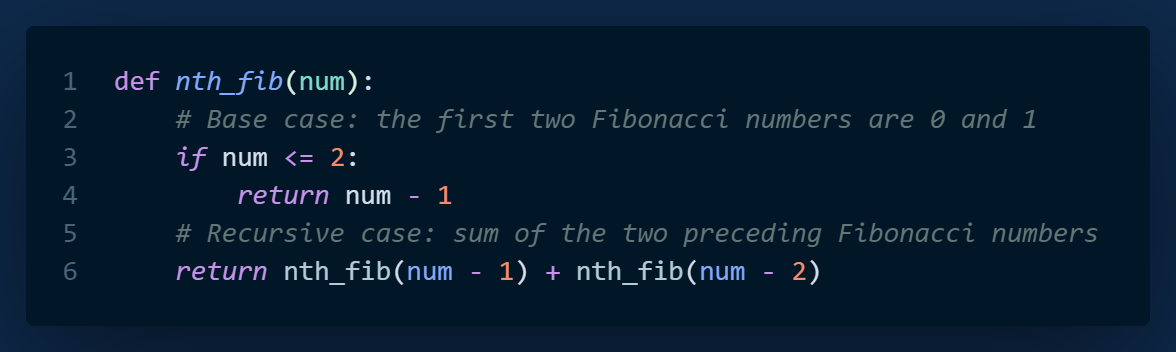
Task 1: Nth Fibonacci Number

Description: Write a recursive function that calculates the nth Fibonacci number, where n is a positive integer. The Fibonacci sequence is a series of numbers in which each number is the sum of the two preceding ones, starting with 0 and 1.

Solution:



Test Cases:

A screenshot of a computer code

AI-generated content may be incorrect.

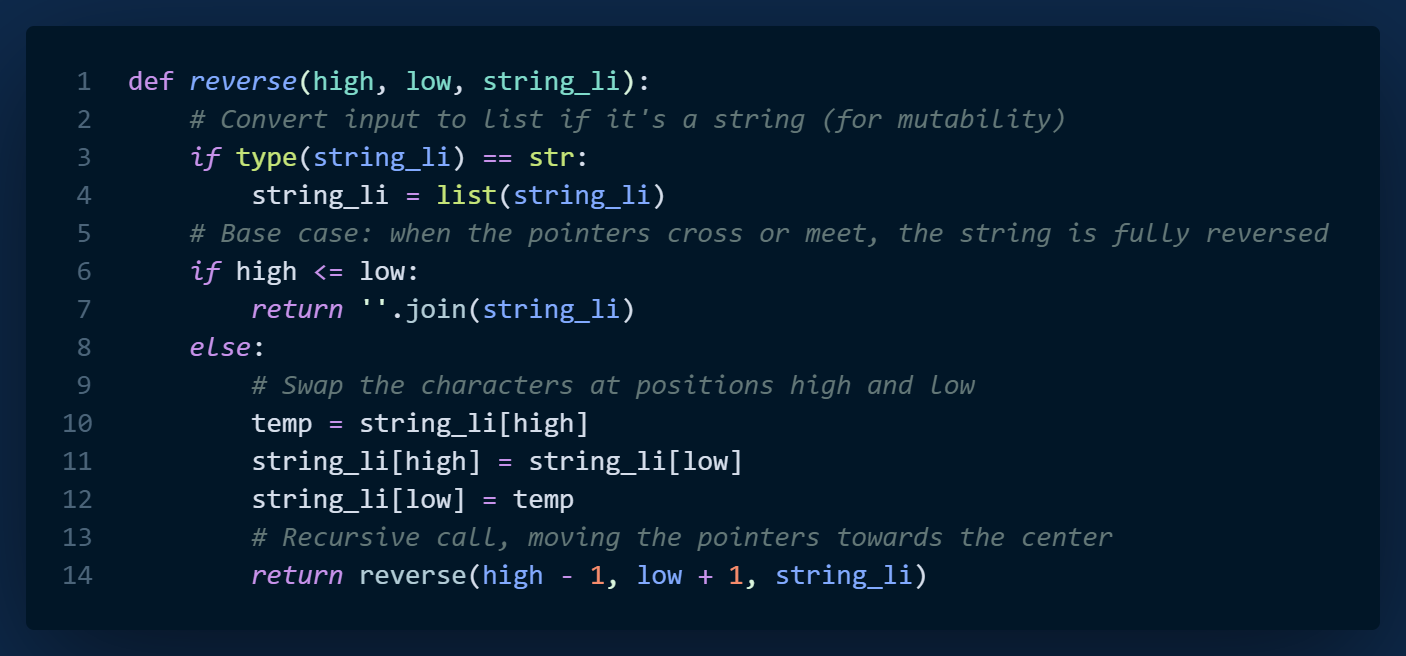
Output:

A blue background with white text

AI-generated content may be incorrect.

Task 2: Reverse String

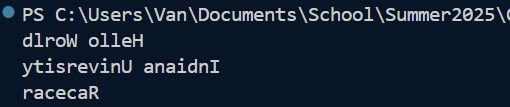
Description: Write a recursive function that reverses a string. The function should take a string as input and return the reversed string as output.

Solution:

Test Cases: A screen shot of a computer program

AI-generated content may be incorrect.

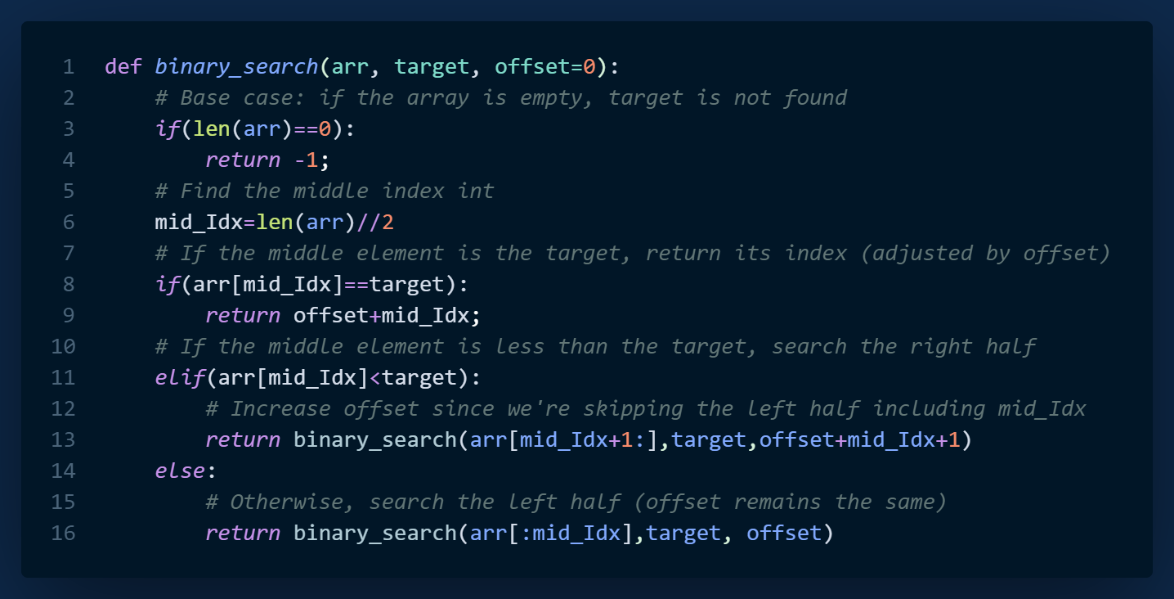
Output:



Task 3: Binary Search

Description: Write a recursive function binary\_search(arr, target) that performs a binary search on a sorted array arr to find the index of the given target value. If the target is found, return its index; otherwise, return -1.

Solution:



Test Cases:

A screenshot of a computer code

AI-generated content may be incorrect.

Output:

