Solution Review: The Factorial!

This review explains the solution for the 'Factorial!' problem.

We'll cover the following

Solution

```
def factorial(n):
    # Base case
    if n == 0 or n == 1:
        return 1

    if n < 0:
        return -1
    # Recursive call
    return n * factorial(n - 1)


print(factorial(5))
```

Explanation

This problem can easily be solved using recursion. We already know that the base case is when `n` is `1` or `0` since it's the minimum we can go. In either case, we return `1`, since it is the factorial for both these values.

Other than that, the only two special cases are if `n` is negative or zero. That can be handled in with simple `if` statements.

The final and most important step is the recursive call. Each call returns a product back to the previous call where the product is multiplied with the current value of `n` in that particular call.