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USER QUERY

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write a python code Prints the first n numbers in the Fibonacci series

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FINAL CODE

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Corrected Code

```
```python
def print_fibonacci(n):
 """
```

Prints the first n numbers in the Fibonacci series.

Args:

n (int): The number of Fibonacci numbers to print.

Returns:

None

"""

# Check if n is a non-negative integer

if not isinstance(n, int) or n < 0:

raise ValueError("n must be a non-negative integer")

# Check if n is 0 or 1

if n == 0 or n == 1:

return

# Initialize the first two Fibonacci numbers

a, b = 0, 1

# Print the first two Fibonacci numbers

print(a)

print(b)

# Print the remaining Fibonacci numbers

for \_ in range(2, n):

# Calculate the next Fibonacci number

a, b = b, a + b

print(b)

# Example usage

```
if __name__ == "__main__":
```

while True:

try:

n = int(input("Enter the number of Fibonacci numbers to print (0 to exit): "))

if n < 0:

print("Please enter a non-negative integer.")

else:

print\_fibonacci(n)

except ValueError:

```
print("Invalid input. Please enter a valid integer.")
```

### ### Changes Made

1. Added a check to handle the edge cases where `n` is 0 or 1. In this case, the function can simply return without printing any numbers.
  2. Added a `while` loop to the example usage section to allow the user to input multiple values for `n` without having to restart the program.
  3. Added a `try`-`except` block to handle cases where the user enters invalid input (e.g., a non-integer value). If the input is invalid, the program will print an error message and prompt the user to enter a valid integer.

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#### **REVIEWER FEEDBACK**

APPROVED

The code you've provided is well-structured, readable, and follows best practices. Here are some specific things that you've done correctly:

1. **Clear function signature and docstring**: Your function has a clear and descriptive name, and the docstring provides a concise explanation of what the function does, its parameters, and its return value.
  2. **Input validation**: You've added checks to ensure that the input `n` is a non-negative integer. This helps prevent the function from producing incorrect results or raising unexpected errors.
  3. **Edge case handling**: You've explicitly handled the edge cases where `n` is 0 or 1, which is a good practice to avoid unnecessary computations or errors.
  4. **Efficient algorithm**: Your implementation of the Fibonacci sequence uses a simple and efficient iterative approach, which is suitable for small to moderate values of `n`.
  5. **Example usage**: You've provided a clear and concise example usage section that demonstrates how to use the function and handles potential errors.

To further improve the code, you could consider adding some additional features, such as:

1. \*\*Support for large values of `n`\*\*: If you need to handle very large values of `n`, you may want to consider using a more efficient algorithm, such as the matrix exponentiation method or the fast doubling method.
  2. \*\*Error handling for invalid input\*\*: While you've added a `try`-`except` block to handle invalid input, you may want to consider providing more informative error messages or handling specific types of errors (e.g., `ValueError` for invalid input).
  3. \*\*Additional functionality\*\*: You could consider adding additional features, such as the ability to print the Fibonacci sequence up to a specific number or to calculate the `n`-th Fibonacci number directly.

Overall, your code is well-written and effective, and with a few minor improvements, it can become even more robust and user-friendly.