Print N to 1 using Recursion in Python

Given a number **N**, the task is to print the numbers from **N to 1**.
Examples:

> *Input:* N = 10
> *Output:* 10 9 8 7 6 5 4 3 2 1
> *Input:* N = 7
> *Output:* 7 6 5 4 3 2 1

We will use recursion to solve this problem.

1. Check for the base case. Here it is N<=0.
2. If base condition satisfied, return to the main function.
3. If base condition not satisfied, print N and call the function recursively with value (N – 1) until base condition satisfies.

Below is the implementation of the above approach.

Python

```python
# Python3 program to print all numbers between 1
# to N in reverse order

# Recursive function to print from N to 1
def PrintReverseOrder(N):

    # if N is less than 1
    # then return void function
    if (N <= 0):
        return;
    else:
        print(N, end = " ");

        # recursive call of the function
```

```
        PrintReverseOrder(N - 1);

# Driver Code
N = 5;
PrintReverseOrder(N);
```

Output:

```
5 4 3 2 1
```

Time Complexity: O(N)

Auxiliary Space: O(N)

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