**NON-Recursive Implementaion**

// Function to count the tallest candles on the birthday cake

Algorithm non\_recursive\_birthdayCakeCandles(candles: array of integers, n: integer) returns integer

{

// Initialize variables

max\_height := candles[0];

max\_count := 1;

// Iterate through the candles

for i := 1 to n - 1 do

{

// Check if the current candle height is greater than the current max height

if candles[i] > max\_height then

{

max\_height := candles[i]; // Update max height

max\_count := 1; // Reset max count to 1

}

// Check if the current candle height is equal to the current max height

else if candles[i] = max\_height then

{

max\_count := max\_count + 1; // Increment max count

}

}

// Return the maximum count of candles with the tallest height

return max\_count;

}