NON-Recursive Implementation2

//Algorithm to find the tallest candle height that occurs most frequently

//Candles is an array of size n

Algorithm non\_recursive\_birthdayCakeCandles2(candles: array of integers, n: integer) returns integer

{

// Check if the number of candles is less than or equal to zero

if n <= 0 then

{

return 0; // Return 0 if there are no candles

}

// Initialize variables

max\_count := 0;

max\_height := candles[0];

// Find the maximum height

for i := 1 to n - 1 do

{

if candles[i] > max\_height then

{

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

}

}

// Count occurrences of the maximum height

for i := 0 to n - 1 do

{

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;

}