**NON-Recursive Implementaion**

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

birthdayCakeCandles(candles, n)

{

// Initialize variables to store maximum count and maximum height

max\_count ← 0;

count ← 0;

max\_height ← 0;

// Loop through each candle

for i from 0 to n - 1

{

// Reset count for each candle

count ← 0;

// Count occurrences of the current candle height

for j from 0 to n - 1

{

if candles[i] equals candles[j]

{

count ← count + 1;

}

}

// Update max\_count and max\_height if the current candle has more occurrences

if count > max\_count

{

max\_count ← count;

max\_height ← candles[i];

}

}

// Count the number of candles with the maximum height

count ← 0;

for i from 0 to n - 1

{

if candles[i] equals max\_height

{

count ← count + 1;

}

}

// Output the tallest candle height

write("The Tallest Candle Is: " + max\_height);

return count;

}