**4- Birthday Cake Candles**

**Algorithm Pseudo-code**

**function birthdayCakeCandles(arr):**

**max arr[0]**

**counter 0**

**// Find the maximum value in the array**

**for i:= 1 to length(arr)-1 do:**

**{**

**if arr[i] > max:**

**max arr[i]**

**}**

**// Count how many times the maximum value appears in the array**

**for i:=0 to length(arr)-1 do:**

**{**

**if arr[i] == max:**

**counter = counter + 1**

**}**

**return counter**

**Algorithm Analysis**

**First for loop analysis tA :**

**Complexity:**

**Second for loop analysis tB :**

**Complexity:**

**Final Result:**

**Sequencing**

**tA+tB = max(tA,tB)**

**Best Case :**

**Worst Case:**

**Average Case:**