**Time Complexity**

#include "Non-RecursiveCandels.h"

int birthdayCakeCandles(int \*candles, int n) {

int max\_count = 0, count = 0, max\_height = 0;

for (int i = 0; i < n; i++) { --------🡪 O(n)

count = 0;

for (int j = 0; j < n; j++) { --------🡪 O(n)

if (candles[i] == candles[j]) {

count++;

}

}

if (count > max\_count) { --------🡪 O(1)

max\_count = count;

max\_height = candles[i];

}

}

count = 0;

for (int i = 0; i < n; i++) { --------🡪 O(n)

if (candles[i] == max\_height) { --------🡪 O(1)

count++;

}

}

printf("The Tallest Candel Is :%d\n",max\_height); --------🡪 O(1)

return count;

}

***T*(*n*) = *n x n + n + n +3 = n^2 + 3n+ 3 = O(n^2)***