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CS23331-DAA-2024-CSE / Problem 1: Finding Complexity using Counter Method

Problem 1: Finding Complexity using Counter Method

Started on	Friday, 10 October 2025, 2:02 PM
State	Finished
Completed on	Friday, 10 October 2025, 2:13 PM
Time taken	11 mins 10 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 TRemove flag

```
Convert the following algorithm into a program and find its time complexity using the counter method.

void function (int n)
{
    int i= 1;
    int s =1;
    while(s <= n)
    {
        i++;
        s += i;
    }
}
Note: No need of counter increment for declarations and scanf() and count variable printf() statements.

Input:
```

For example:

A positive Integer n

Print the value of the counter variable

Input	Result	
9	12	

Answer: (penalty regime: 0 %)

```
1  | #include <stdio.h>
2
3     int main(void) {
4        long long n, cnt = 0;
5        if (scanf("%lid", An) != 1) {
6             return 0;
7        }
8        long long i = 1, s = 1;
9        cnt += 2;
10        while ((cnt++, s <= n)) {
11             i++;
12             s += i;
13             s += i;
14             cnt++;
15        }
16        printf("%lid", cnt);
17        return 0;
18     }
19</pre>
```

	Input	Expected	Got	
~	9	12	12	~
•	4	9	9	•

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

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