

Started on Thursday, 31 July 2025, 8:15 AM

State Finished

Completed on Thursday, 31 July 2025, 8:31 AM

Time taken 16 mins 31 secs

Marks 1.00/1.00

Grade 10.00 out of 10.00 (100%)

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:

A positive Integer n

Output:

Print the value of the counter variable

For example:

Input	Result
9	12

Answer: (penalty regime: 0 %)

Reset answer

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```
#include<stdio.h>

void function(int);

void function (int n)
{
    int c=0;
    int i= 1;
    c++;
    int s =1;
    c++;
    while(s <= n)
    {
        c++;
        i++;
        c++;
        s += i;
        c++;
    }
}
```

	Input	Expected	Got	
✓	9	12	12	✓
✓	4	9	9	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.