

VISAANTH M 2024-ITV2**Started on** Wednesday, 6 August 2025, 1:31 PM**State** Finished**Completed on** Wednesday, 6 August 2025, 1:56 PM**Time taken** 25 mins 55 secs**Marks** 1.00/1.00**Grade** **10.00** out of 10.00 (**100%**)

Question 1 | Correct Mark 1.00 out of 1.00

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 %)

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Falling back to raw text area.

```
#include<stdio.h>
int main()
{
    int n;
    scanf("%d", &n);
    int c=0;
    int i=1;
    c++;
    int s=1;
    c++;
    while(s<=n) {
        c++;
        i++;
        c++;
        s+=i;
        c++;
    }
    c++;
    printf("%d\n", c);
```

	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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