



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 %)

Ace editor not ready. Perhaps reload page?

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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