





(A) (D) VARSHINI S 2024-CSE V



Started on	Wednesday, 13 August 2025, 8:29 PM
State	Finished
Completed on	Wednesday, 13 August 2025, 8:34 PM
Time taken	4 mins 18 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</pre>
```

For example:

Input	Result
9	12

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2 🔻
     void function(int n){
         int count=0;
 3
 4
         int i=1;
 5
         count++;
 6
         int s=1;
 7
         count++;
 8 ,
         while(s<=n){</pre>
 9
             count++;
10
             i++;
11
             count++;
12
             s+=i;
13
             count++;
14
         }
15
         count++;
16
         printf("%d",count);
17
18 v int main(){
19
         int n;
         scanf("%d",&n);
20
21
         function(n);
22 }
```

	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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