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 %)

```
#include<stdio.h>
void function();
int main()
{
    int n,c=0;
    scanf("%d",&n);
    function(n,c);
}
void function(int n,int c)
{
    int i=1;
    c++;
    int s=1;
    c++;
    while(s<=n)
    {
        i++;
        s+=i;
        c+=3;
    }
    c++;
    printf("%d",c);;
}
```

	Input	Expected	Got	
✔	9	12	12	✔
✔	4	9	9	✔