RAJALAKSHMI ENGINEERING COLLEGE

MONISHA S 2024-CSE

M2

| | |
|---|---|
| **Started on** | Friday, 8 August 2025, 2:37 PM |
| **State** | Finished |
| **Completed on** | Friday, 8 August 2025, 2:42 PM |
| **Time taken** | 5 mins 32 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>
void function(int n)
{
    int c=0;
    int i=1;
    c++;
    int s=1;
    c++;
    while(s<=n)
    {
        c++;
        i++;
        c++;
        s+=i;
        c++;
    }
    c++;
    printf("%d",c);
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✔ | 9 | 12 | 12 | ✔ |
| ✔ | 4 | 9 | 9 | ✔ |

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Back to Course

RAJALAKSHMI ENGINEERING COLLEGE

MONISHA S 2024-CSE

M2

| | |
|---|---|
| **Started on** | Friday, 8 August 2025, 2:43 PM |
| **State** | Finished |
| **Completed on** | Friday, 8 August 2025, 2:52 PM |
| **Time taken** | 8 mins 58 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 func(int n)
{
    if(n==1)
    {
      printf("*");
    }
    else
    {
     for(int i=1; i<=n; i++)
     {
       for(int j=1; j<=n; j++)
       {
          printf("*");
          printf("*");
          break;
       }
     }
   }
 }
```

**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

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
void func(int n)
{
    int c=0;
    c++;
    if(n==1)
    {
         c++;
        //printf("*");
    }

    else
    {

        for(int i=1;i<=n;i++)
        {
            c++;
            for(int j=1;j<=n;j++)
            {
                c++;
                c++;
                //printf("*");
                c++;
                //printf("*");

                break;
            }c++;
        }c++;
    }
    printf("%d",c);
}
int main()
{
    int n;
    scanf("%d",&n);
```

```
    func(n);
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✔ | 2 | 12 | 12 | ✔ |
| ✔ | 1000 | 5002 | 5002 | ✔ |
| ✔ | 143 | 717 | 717 | ✔ |

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Back to Course

RAJALAKSHMI ENGINEERING COLLEGE

MONISHA S 2024-CSE

M2

| | |
|---|---|
| **Started on** | Friday, 8 August 2025, 10:07 PM |
| **State** | Finished |
| **Completed on** | Friday, 8 August 2025, 10:12 PM |
| **Time taken** | 5 mins 10 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 counter method.

```
Factor(num) {
{
   for (i = 1; i <= num;++i)
   {
    if (num % i== 0)
       {
         printf("%d ", i);
       }
    }
 }
```

**Note:** No need of counter increment for declarations and scanf() and counter variable printf() statement.

**Input:**

A positive Integer n

**Output:**

Print the value of the counter variable

**Answer:**

```
#include<stdio.h>
void Factor(int num)
{
    int c=0;

for(int i=1;i<=num;++i)
{
    c++;
    c++;
if(num%i==0)

{//printf("%d",i);
c++;
}
}
c++;
printf("%d",c);
}
int main()
{
int n;
scanf("%d",&n);
Factor(n);
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✔ | 12 | 31 | 31 | ✔ |
| ✔ | 25 | 54 | 54 | ✔ |
| ✔ | 4 | 12 | 12 | ✔ |

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Back to Course

RAJALAKSHMI ENGINEERING COLLEGE

MONISHA S 2024-CSE M2

Done

**Opened:** Friday, 8 August 2025, 9:00 AM
**Closes:** Sunday, 31 August 2025, 11:59 AM

Attempts allowed: 2

Grading method: Highest grade

## Summary of your previous attempts

| Attempt | State | Marks / 1.00 | Grade / 10.00 | Review |
|---|---|---|---|---|
| 1 | Finished<br>Submitted Friday, 8 August 2025, 10:17 PM | 1.00 | 10.00 | Review |

## Highest grade: 10.00 / 10.00.

Back to Course

RAJALAKSHMI ENGINEERING COLLEGE

MONISHA S 2024-CSE

M2

| | |
|---|---|
| **Started on** | Friday, 8 August 2025, 10:18 PM |
| **State** | Finished |
| **Completed on** | Friday, 8 August 2025, 10:22 PM |
| **Time taken** | 4 mins |
| **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 counter method.

```
void reverse(int n)
{
   int rev = 0, remainder;
   while (n != 0)
    {
        remainder = n % 10;
        rev = rev * 10 + remainder;
        n/= 10;

    }
print(rev);
}
```

**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

**Answer:**

```c
#include<stdio.h>
void reverse(int n)
{
    int c=0;
    c+=2;
    int rev=0,remainder;
    while(n!=0)
    {c++;
    c++;
        remainder=n%10;
        c++;
        rev=rev*10+remainder;
        c++;
        n/=10;
    }
    c++;
    printf("%d",c);
}
int main()
{
    int n;
    scanf("%d",&n);
    reverse(n);
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✔ | 12 | 11 | 11 | ✔ |
| ✔ | 1234 | 19 | 19 | ✔ |

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Back to Course