

Problem 2: Finding Complexity using Counter method

Started on	Monday, 18 August 2025, 12:56 AM
State	Finished
Completed on	Monday, 18 August 2025, 1:03 AM
Time taken	6 mins 54 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 Flag question

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 %)

```
1 #include<stdio.h>
2
3 int func(int n){
4     int counter=0;
5     if(n==1){
6         counter++;
7         counter++;
8         return counter;
9     }
10    else{
11        for(int i=1;i<=n;i++){
12            counter++;
13            for(int j=1;j<=i;j++){
14                counter++;
15                counter++;
16                counter++;
17                counter++;
18                break;
19            }
20        }
21    }
22    counter++;
23    counter++;
24    return counter;
25 }
26
27 int main(){
28     int n;
29     scanf("%d",&n);
30     printf("%d",func(n));
31 }
```

	Input	Expected	Got	
✓	2	12	12	✓
✓	1000	5002	5002	✓

✓	143	717	717	✓
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Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[Finish review](#)

[Back to Course](#)

CS23331-DAA-2024-CSE / Problem 3: Finding Complexity using Counter Method

Problem 3: Finding Complexity using Counter Method

Started on	Wednesday, 27 August 2025, 8:16 PM
State	Finished
Completed on	Wednesday, 27 August 2025, 8:24 PM
Time taken	7 mins 28 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | [Correct](#) Mark 1.00 out of 1.00 [Flag question](#)

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:

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int n,i,count=0;
6     scanf("%d",&n);
7
8     for(i=1;i<=n;i++){
9         count++;
10        count++;
11        if(n%i==0){
12            count++;
13        }
14    }
15    count++;
16
17    printf("%d",count);
18 }
```

	Input	Expected	Got	
✓	12	31	31	✓
✓	25	54	54	✓
✓	4	12	12	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[Finish review](#)

[Back to Course](#)

Problem 4: Finding Complexity using Counter Method

Started on	Wednesday, 27 August 2025, 8:30 PM
State	Finished
Completed on	Wednesday, 27 August 2025, 8:46 PM
Time taken	16 mins 21 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | [Correct](#) Mark 1.00 out of 1.00 [Flag question](#)

Convert the following algorithm into a program and find its time complexity using counter method.

```
void function(int n)
{
    int c = 0;
    for(int i=n/2; i<n; i++)
        for(int j=1; j<n; j = 2 * j)
            for(int k=1; k<n; k = k * 2)
                c++;
}
```

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:

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,counter=0;
5     scanf("%d",&n);
6     counter++;
7
8     for(int i=n/2; i<n;i++){
9         counter++;
10        for(int j=1;j<n;j=2*j)
11        {
12            counter++;
13            for(int k=1;k<n;k=k*2){
14                counter++;
15                counter++;
16            }
17            counter++;
18        }
19        counter++;
20    }
21    counter++;
22    printf("%d",counter);
23 }
```

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	Input	Expected	Got	
✓	4	30	30	✓
✓	10	212	212	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[Finish review](#)

[Back to Course](#)



CS23331-DAA-2024-CSE / Problem 5: Finding Complexity using counter method

Problem 5: Finding Complexity using counter method

Started on	Wednesday, 27 August 2025, 9:42 PM
State	Finished
Completed on	Wednesday, 27 August 2025, 9:55 PM
Time taken	13 mins 7 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00  [Flag question](#)

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:

```
1 #include<stdio.h>
2 int main()
3 {
4     int rev=0,remainder,counter=0,n;
5     scanf("%d",&n);
6     counter++;
7     counter++;
8     while(n!=0)
9     {
10         counter++;
11         remainder=n%10;
12         counter++;
13         rev=rev*10+remainder;
14         counter++;
15         n/=10;
16         counter++;
17     }
18     counter++;
19     printf("%d",counter);
20 }
```

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	Input	Expected	Got	
✓	12	11	11	✓
✓	1234	19	19	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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[Back to Course](#)

