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CS23331-DAA-2024-CSE / Problem 1: Finding Complexity using Counter Method

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Problem 1: Finding Complexity using Counter Method

Started on	Thursday, 21 August 2025, 8:17 PM
State	Finished
Completed on	Thursday, 21 August 2025, 9:45 PM
Time taken	1 hour 28 mins
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | F | Flag question

```
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;
    }
}</pre>
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 %)

	Input	Expected	Got	
~	9	12	12	~
~	4	9	9	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / Problem 2: Finding Complexity using Counter method

Problem 2: Finding Complexity using Counter method

Started on Sunday, 17 August 2025, 9:59 PM State Finished Completed on Thursday, 21 August 2025, 9:50 PM Time taken 3 days 23 hours Marks 1.00/1.00 Grade 10.00 out of 10.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | F | 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++)
        {
            printf("*");
        }
}</pre>
```

```
printf("*");
    break;
}

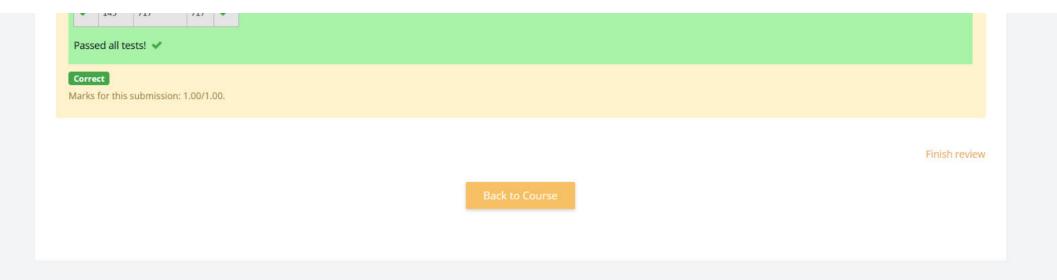
}

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 · void func(int n) {
        int count = 0;
           count++;
           for(int i = 1; i \le n; i++) {
               count++;
               count++;
               count++;
               count++;
14
               count++;
           count++;
        printf("%d\n", count);
20 v int main() {
        int n;
        scanf("%d", &n);
        func(n);
        return 0;
```

	Input	Expected	Got	
*	2	12	12	~
~	1000	5002	5002	¥
	142	717	717	







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

Problem 3: Finding Complexity using Counter Method

Started on	Thursday, 21 August 2025, 9:52 PM
State	Finished
Completed on	Thursday, 21 August 2025, 9:56 PM
Time taken	4 mins 4 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | F | Flag question

```
Convert the following algorithm into a program and find its time complexity using counter method.
Factor(num) {
   for (i = 1; i \le 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:

	Input	Expected	Got	
~	12	31	31	•
~	25	54	54	•
~	4	12	12	4

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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CS23331-DAA-2024-CSE / Problem 4: Finding Complexity using Counter Method

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Problem 4: Finding Complexity using Counter Method

Started on	Friday, 22 August 2025, 1:42 PM
State	Finished
Completed on	Saturday, 23 August 2025, 6:35 AM
Time taken	16 hours 52 mins
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | F | 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() {
       long long n;
       if(scanf("%lld", &n) != 1)
         return 0;
       long long counter = 0;
       long long i = n / 2;
       counter++;
       while(1) {
          counter++;
          if(!(i < n))
              break;
          long long j = 1;
              counter++;
              if(!(j < n))
              long long k = 1;
              while(1) {
                  counter++;
                  if(!(k < n))
                     break;
                  counter++;
       printf("%lld\n", counter);
```

	Input	Expected	Got	
*	4	30	30	~
~	10	212	212	~

Passed all tests! 🗸

Marks for this submission: 1.00/1.00.

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

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Problem 5: Finding Complexity using counter method

Started on	Saturday, 23 August 2025, 6:36 AM
State	Finished
Completed on	Saturday, 23 August 2025, 6:40 AM
Time taken	4 mins 46 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct | Mark 1.00 out of 1.00 | F | Hag 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:

```
#includestdio.h>
int nain() {
    int n;
    scanf("%d", %n);
    int rev = 0, remainder;
    int counter = 0;
    while(n != 0) {
        counter++;
        remainder = n % 10;
        counter++;
        rev = 10 + remainder;
        counter++;
        n /= 10;
        counter++;
        f counter++;
        rounter++;
        rounter++;
        rounter++;
        rounter+-;
        rounter+--;
        return 0;
        return 0;
    }
}
```

	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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