Dashbo... / My cour... / CS23331-DAA-2023-A... / Finding Time Complexity of Algorit... / Problem 1: Finding Complexity using Counter Me...

Started on	Monday, 19 August 2024, 8:26 AM
State	Finished
Completed on	Monday, 19 August 2024, 8:34 AM
Time taken	8 mins 3 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>
int main()
{
    int n,c=0;
    scanf("%d",&n);

    int i =1;
    c++;
    int s=1;
    c++;
    while(s<=n)
    {
        c++;
        i++;
        c++;
        s+=i;
        c++;
    }
}</pre>
```

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ BASIC C PROGRAMMING-PRACTICE

Jump to...

Problem 2: Finding Complexity using Counter method ►

Dashbo... / My cour... / CS23331-DAA-2023-A... / Finding Time Complexity of Algorit... / Problem 2: Finding Complexity using Counter me...

Started on	Thursday, 8 August 2024, 9:07 AM
State	Finished
Completed on	Thursday, 8 August 2024, 9:33 AM
Time taken	25 mins 47 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++)</pre>
          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>
int main()
{
  int n;
  int c= 0;
  scanf("%d",&n);

  if(n==1)
  {
     c++;
     //printf("");
     c++;
}
else
{
     c++;
     for(int i=1; i<=n; i++)</pre>
```

	Input	Expected	Got	
~	2	12	12	~
~	1000	5002	5002	~
~	143	717	717	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

→ Problem 1: Finding Complexity using Counter Method

Jump to...

Problem 3: Finding Complexity using Counter Method ►

Dashbo... / My cour... / CS23331-DAA-2023-A... / Finding Time Complexity of Algorit... / Problem 3: Finding Complexity using Counter Me...

Started on	Thursday, 8 August 2024, 9:34 AM
State	Finished
Completed on	Thursday, 8 August 2024, 9:46 AM
Time taken	12 mins 15 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);
              }
        }
     }
}</pre>
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	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

→ Problem 2: Finding Complexity using Counter method

Jump to...

Problem 4: Finding Complexity using Counter Method ►

Dashbo... / My cour... / CS23331-DAA-2023-A... / Finding Time Complexity of Algorit... / Problem 4: Finding Complexity using Counter Me...

Started on	Monday, 19 August 2024, 8:35 AM
State	Finished
Completed on	Monday, 19 August 2024, 8:52 AM
Time taken	16 mins 47 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
```

Answer:

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

→ Problem 3: Finding Complexity using Counter Method

Jump to...

Problem 5: Finding Complexity using counter method ►

Dashbo... / My cour... / CS23331-DAA-2023-A... / Finding Time Complexity of Algorit... / Problem 5: Finding Complexity using counter me...

Started on	Monday, 19 August 2024, 8:52 AM
State	Finished
Completed on	Monday, 19 August 2024, 8:59 AM
Time taken	6 mins 59 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.

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:

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

	Input	Expected	Got	
~	12	11	11	~
~	1234	19	19	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Problem 4: Finding Complexity using Counter Method

Jump to...

1-Number of Zeros in a Given Array ►