RAJALAKSHMI ENGINEERING COLLEGE

VISHAL M 2024-CSE V2

Started on	Thursday, 7 August 2025, 12:57 PM
State	Finished
Completed on	Thursday, 7 August 2025, 1:05 PM
Time taken	7 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 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>
int c=0;
void function(int n){
    int i=1;
    c++;
    int s=1;
    c++;
    while(s<=n){
        c++;
        i++;
        c++;
        s+=i;
        c++;
    }
}
int main(){
    int n;
    scanf("%d",&n);
    c=0;
    function(n);
    printf("%d\n",c+1);
    return 0;
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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VISHAL M 2024-CSE V2

Started on	Wednesday, 13 August 2025, 10:18 AM
State	Finished
Completed on	Wednesday, 13 August 2025, 10:33 AM
Time taken	15 mins 36 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>
int c=0;
void func(int n)
{
    if(n==1)

    {

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

     {
       for(int j=1; j<=n; j++)

       {
          c++;
          c++;
          c++;
          c++;
          break;

       }
       c++;
     }
     c++;
   }
   c++;
 }
int main(){
    int n;
```

```
    scanf("%d",&n);

    func(n);
    printf("%d\n",c-1);
    return 0;
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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VISHAL M 2024-CSE V2

Started on	Wednesday, 13 August 2025, 10:34 AM
State	Finished
Completed on	Wednesday, 13 August 2025, 10:43 AM
Time taken	8 mins 36 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>


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

 }
 }
int main(){
    int n;
    scanf("%d",&n);
    c=0;
    Factor(n);
    printf("%d\n",c);
    return 0;
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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RAJALAKSHMI ENGINEERING COLLEGE

VISHAL M 2024-CSE V2

Started on	Wednesday, 13 August 2025, 10:46 AM
State	Finished
Completed on	Wednesday, 13 August 2025, 11:07 AM
Time taken	21 mins 13 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 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:

```
#include<stdio.h>
int c=0;
void function(int n)
{
   c++;
    for(int i=n/2; i<n; i++){
        c++;
        c++;
        for(int j=1; j<n; j = 2 * j){
            c++;
            c++;
            for(int k=1; k<n; k = k * 2){
                c++;
                c++;

            }
        }
    }
}
int main(){
    int n;
    scanf("%d",&n);
    c=0;
    function(n);
    printf("%d\n",c+1);
    return 0;
}
```

	Input	Expected	Got	
✔	4	30	30	✔
✔	10	212	212	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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VISHAL M 2024-CSE V2

Started on	Wednesday, 13 August 2025, 11:16 AM
State	Finished
Completed on	Wednesday, 13 August 2025, 11:19 AM
Time taken	3 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.

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

    }
//print(rev);
c++;
}
int main(){
    int n;
    scanf("%d",&n);
    c=0;
    reverse(n);
    printf("%d\n",c+1);
    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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