



Started on	Wednesday, 20 August 2025, 9:02 AM
State	Finished
Completed on	Wednesday, 20 August 2025, 9:07 AM
Time taken	5 mins 5 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:

```
1 #include<stdio.h>
 2 v int main(){
3 int num, count=0;
4 scanf("%d",&num);
5 for(int i=1;i<=num;++i){</pre>
        count++;
        if(num%i==0){
7 •
 8
            count++;
       }count++;
9
10 }count++;
   printf("%d",count);
11
12
13
14
```

	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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