





(A) (D) VARSHINI S 2024-CSE V



Started on	Wednesday, 13 August 2025, 9:30 PM
State	Finished
Completed on	Wednesday, 13 August 2025, 9:34 PM
Time taken	4 mins 11 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</pre>
```

Answer:

```
#include<stdio.h>
 1
 2 🔻
     void Factor(int num){
 3
        int count=0;
 4
        for(int i=1;i<=num;++i){</pre>
 5
             count++;
             count++;
 6
 7
             if(num%i==0){
 8
                 count++;
 9
10
        }
11
        count++;
12
        printf("%d",count);
13
        return;
14
     int main(){
15 •
16
        int num;
        scanf("%d",&num);
17
18
        Factor(num);
19 }
```

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

Passed all tests! 🗸	
Correct Marks for this submission: 1.00/1.00.	
	Back to Course