Started on	Thursday, 31 July 2025, 8:57 AM
State	Finished
Completed on	Thursday, 31 July 2025, 9:12 AM
Time taken	15 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.

```
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:

Reset answer

```
#include<stdio.h>

void Factor(int);

void Factor(int num) {
    int c=0;
    for (int i = 1; i <= num;++i)
    {
        c++;
        c++;
     if (num % i== 0)
        {

          //printf("%d ", i);
          c++;
        }
     }
     c++;
     printf("%d",c);

  }

  int main()
  {
      int num;
      scanf("%d",&num);
      Factor(num);
  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.