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Started on	Tuesday, 13 August 2024, 2:41 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:46 PM
Time taken	5 mins 33 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 int main(){
3     int n;
4     scanf("%d",&n);
5     int a=0;
6     a++;
7     for(int i=1;i<=n && a++;i++,a++){
8         if(n%i==0 && a++){
9             //printf("%d",i);
10        }
11    }
12    printf("%d",a);
13 }
```

	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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