Renuga Devi K 2023-CS-A R2 🗸

CS23331-Design and Analysis of Algorithms-2023 Batch-CS

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Quiz navigation

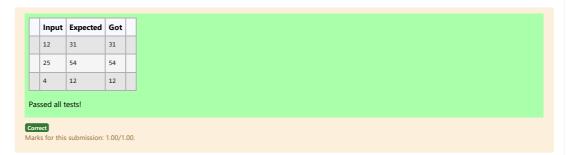


Finish review

```
Status Finished
   Started Sunday, 23 February 2025, 2:36 PM
Completed Sunday, 23 February 2025, 4:34 PM
  Duration 1 hour 58 mins
    Marks 1.00/1.00
    Grade 10.00 out of 10.00 (100%)
```

Question 1 Correct Mark 1.00 out of Flag question

```
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
Print the value of the counter variable
Answer:
         #include<stdio.h>
          void factor (int num)
             int count=0;
for( int i=1;i<=num;++i)</pre>
                  count++;
                  if(num%i==0)
                  {
    count++;
    // printf("%d",i);
   10
11
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               count++;
             count++;
printf("%d",count);
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             int num;
scanf("%d",&num);
factor(num);
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             return 0;
   25
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```



‡

Finish review

→ Problem 2: Finding Complexity using Counter method

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Problem 4: Finding Complexity using Counter Method ►