```
Question 1
Correct
Mark 1.00 out of 1.00
```

```
Convert the following algorithm into a program and find its time
```

Answer:

```
#include<stdio.h>
 2
   void function(int n)
 3 ▼ {
 4
        int c= 0;
 5
        for(int i=n/2; i<n; i++)
 6
 7
             C++;
 8
             for(int j=1; j < n; j = 2 * j)
 9 .
10
                 C++;
                 for(int k=1; k < n; k = k * 2)
11
12 🔻
13
                     C++;
14
                     C++;
                 }
15
16
                 C++;
17
             }
18
            C++;
19
20
        C++;
21
        printf("%d",c);
22
23
24
25
   int main()
26 ▼ {
27
        int n;
        scanf("%d",&n);
28
29
        function(n);
30
```

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 4 | 30 | 30 | ~ |

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| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 10 | 212 | 212 | ~ |

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

→ Problem 3: Finding Complexity using Counter Method

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Problem 5: Finding Complexity using counter method ►