**RAJALAKSHMI
ENGINEERING
COLLEGE**

🔔 7   **SIVA S 2024-CSE** ⌄   **S2**

Started on	Wednesday, 8 October 2025, 3:27 PM
State	Finished
Completed on	Wednesday, 8 October 2025, 3:49 PM
Time taken	22 mins 6 secs
Marks	0.00/1.00
Grade	**0.00** out of 10.00 (**0**%)

Question 1 | Incorrect   Mark 0.00 out of 1.00

Convert the following algorithm into a program and find its time

```
complexity using counter method.

void function(int n)
{
    int c= 0;
    for(int i=n/2; i<n; i++)
        for(int j=1; j<n; j = 2 * j)
            for(int k=1; k<n; k = k * 2)
                c++;
}
```

Note: No need of counter increment for declarations and scanf() and count variable printf() statements.

Input:
 A positive Integer n
Output:
Print the value of the counter variable

Answer:

```
 1  #include <stdio.h>
 2
 3  int main() {
 4      int n;
 5      scanf("%d", &n);
 6      int c = 0;
 7
 8      for (int i = n / 2; i < n; i++) {
 9          for (int j = 1; j < n; j++) {
10              for (int k = 1; k < n; k = 2 * k) {
11                  c++;
12              }
13          }
14      }
15
16      printf("%d\n", c);
17      return 0;
18  }
```

	Input	Expected	Got	
✖	4	30	12	✖
✖	10	212	180	✖

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

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