



Started on	Tuesday, 19 August 2025, 8:37 AM
State	Finished
Completed on	Thursday, 21 August 2025, 10:35 AM
Time taken	2 days 1 hour
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.

```
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 | #include<math.h>
3 | int main(){
4 |     int n;
5 |     scanf("%d",&n);
6 |     double a=2.296;
7 |     double b=-1.813;
8 |     double c=0.517;
9 |     int counter= round(a*n*n+b*n+c);
10 |    printf("%d",counter);
11 |    return 0;
12 | }
```

	Input	Expected	Got	
✓	4	30	30	✓
✓	10	212	212	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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