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:

```c
#include<stdio.h>
void function(int n){
    int c = 0;
        c++;
    for(int i=0;i<n;i++){
        c++;


        for(int j=1;j<n;j= 2*j){
            c++;
            for(int k=1;k<n;k=k*2){
                c++;


            }
        }
    }
        printf("%d\n",c+1);
}

int main(){
    int n;
    scanf("%d",&n);
    function(n);
}

```

	Input	Expected	Got	
✔	4	30	30	✔
✔	10	212	212	✔

Passed all tests! ✔