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Exp no:1

Program 1:
```c
#include <stdio.h>
int count=0;
void function (int n)
{
    int i= 1;
    count++;
    int s =1;
    count++;
    while(s <= n)
    {
        count++;
        i++;
        count++;
        s += i;
        count++;
    }
     count++;
}
int main()
{
    int n;
    scanf("%d",&n);
    function(n);
    printf("%d",count);
}
```

Output:

	Input	Expected	Got	
✔	9	12	12	✔
✔	4	9	9	✔

Passed all tests! ✔

Program 2:

```c
#include <stdio.h>
int count=0;
void func(int n)
{
   if(n==1)
   {
     printf("*");
   }
   else
   {
    for(int i=1; i<=n; i++)
    {
     for(int j=1; j<=n; j++)
     {
       count++;
       count++;
       count++;
       break;
     }
     count++;
     count++;
    }
    count++;
   }
   count++;
}
int main()
{
   int n;
   scanf("%d",&n);
   func(n);
   printf("%d",count);
}
```

Output:

	Input	Expected	Got	
✔	2	12	12	✔
✔	1000	5002	5002	✔
✔	143	717	717	✔

Passed all tests! ✔

Program 3:

```c
#include <stdio.h>
int count=0;
void factor(int num)
{
    for (int i = 1; i <= num;++i){
        count++;
        if (num % i== 0)
        {
            count++;
        }
        count++;
    }
    count++;
}
int main()
{
    int num;
    scanf("%d",&num);
    factor(num);
    printf("%d",count);
}
```

Output:

	Input	Expected	Got	
✔	12	31	31	✔
✔	25	54	54	✔
✔	4	12	12	✔

Passed all tests! ✔

Program 4:

```c
#include <stdio.h>
int count=0;
void function(int n)
{
    int c=0;
    count++;
    for(int i=n/2; i<n; i++){
        count++;
        for(int j=1; j<n; j = 2 * j){
            count++;
            for(int k=1; k<n; k = k * 2){
                count++;
                count++;
                c++;
            }
            count++;
        }
        count++;
    }
    count++;
}
int main()
{
    int n;
    scanf("%d",&n);
    function(n);
    printf("%d",count);
}
```

Output:

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

Passed all tests! ✔

Program 5:
```c
#include <stdio.h>
int count=0;
void reverse(int n)
{
  int rev = 0, remainder;
  count++;
  while (n != 0)
   {
      count++;
      remainder = n % 10;
      count++;
      rev = rev * 10 + remainder;
      count++;
      n/= 10;
      count++;
   }
  count++;
  count++;
}
int main()
{
   int n;
   scanf("%d",&n);
   reverse(n);
   printf("%d",count);
   return 0;
}
```

Output:

	Input	Expected	Got	
✔	12	11	11	✔
✔	1234	19	19	✔

Passed all tests! ✔