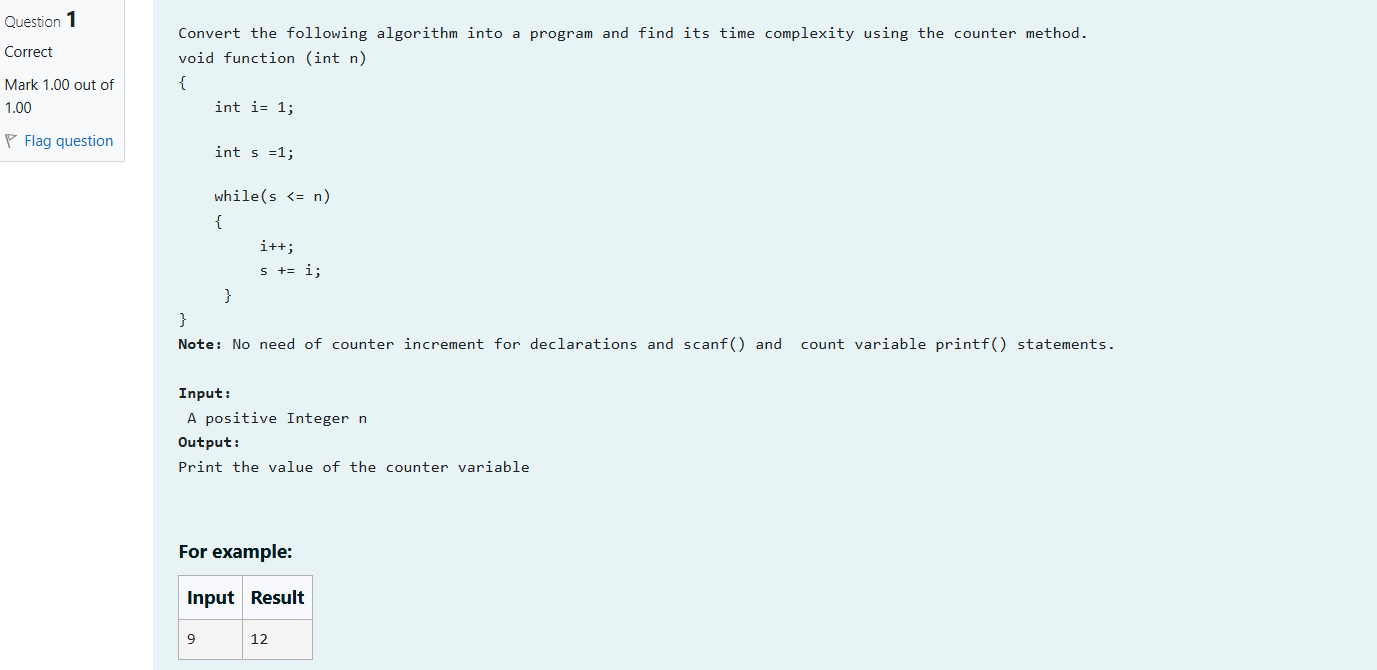
DESIGN AND ANALYSIS OF ALGORITHMS

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**WEEK : FINDING TIME COMPLEXITY OF ALGORITHMS**

****

**#include<stdio.h>**

**int main()**

**{**

**int n;**

**scanf("%d",&n);**

**int a=0;**

**int i=1;a++;**

**int s=1;a++;**

**while(s<=n){**

**a++;**

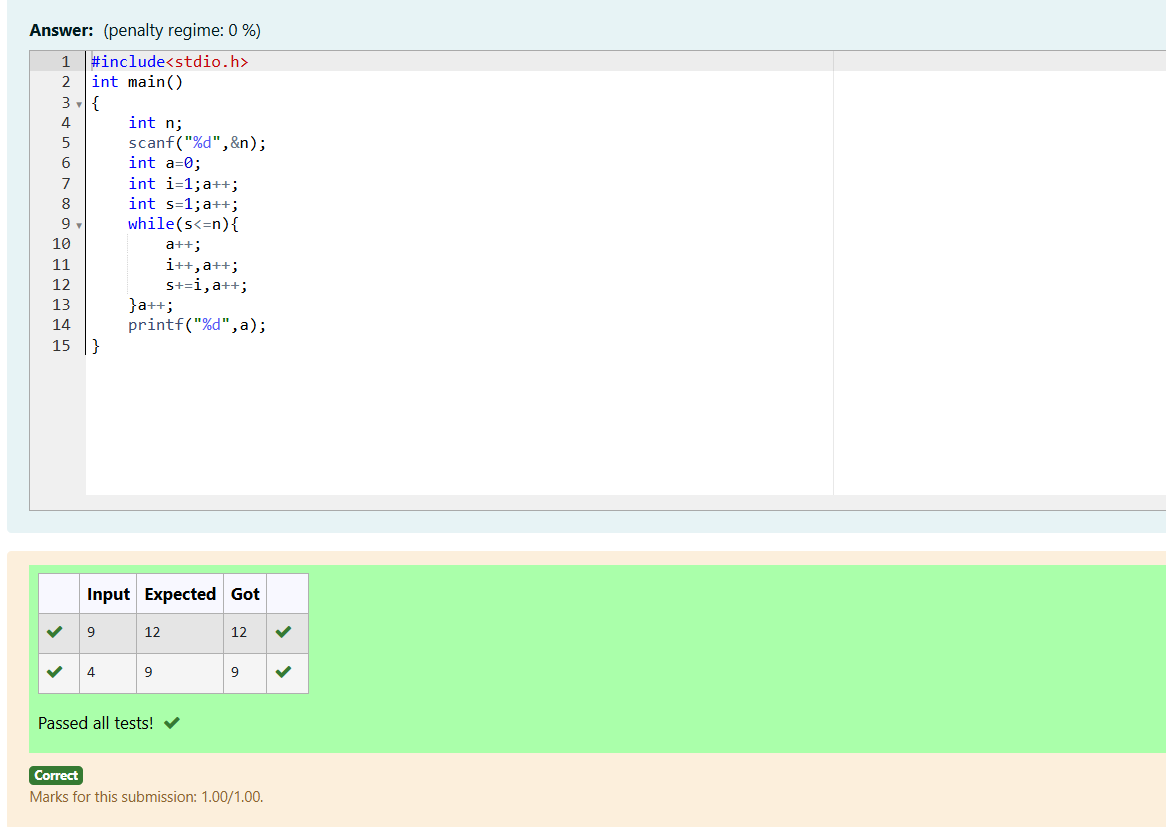
**i++,a++;**

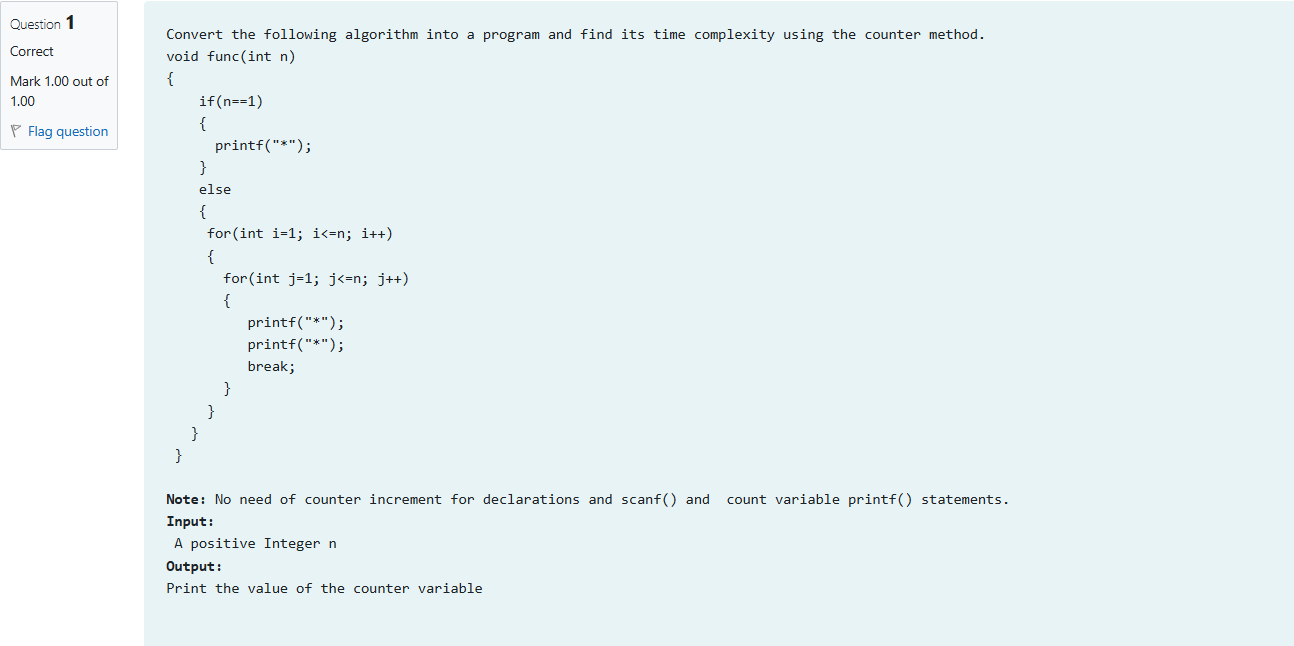
**s+=i,a++;**

**}a++;**

**printf("%d",a);**

**}**

****

****

**#include<stdio.h>**

**int main(){**

**int n,a=0;**

**scanf("%d",&n);**

**if(n==1){**

**a++;**

**//printf("\*");**

**}**

**else{**

**a++;**

**for(int i=1;i<=n; i++,a++){**

**a++;**

**a++;**

**for(int j=1; j<=n; j++,a++){**

**a++;**

**//printf("\*");**

**//printf("\*");**

**break;**

**a++;**

**}**

**a++;**

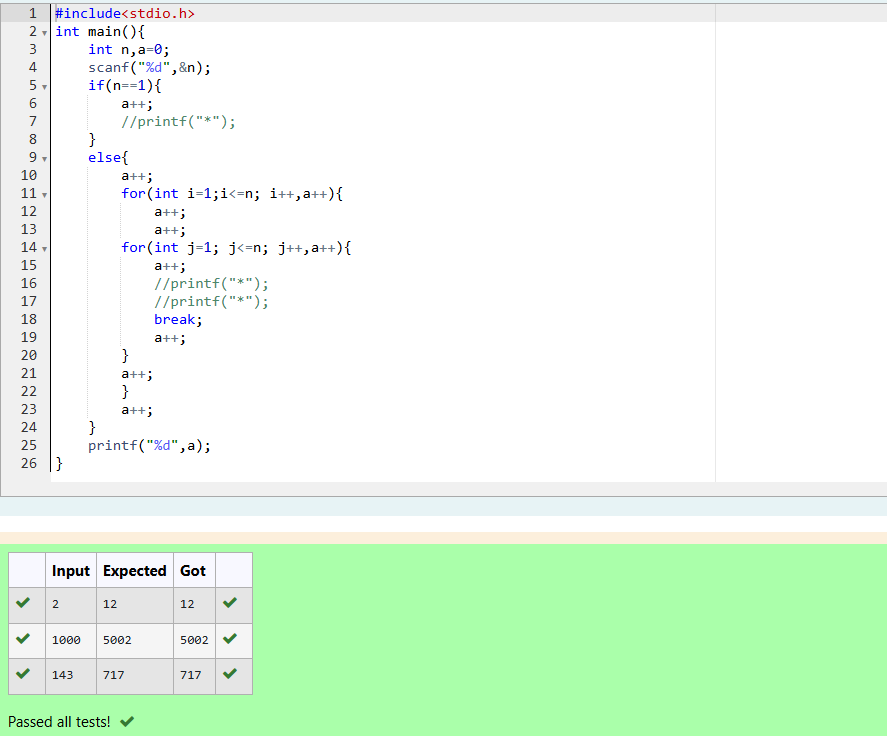
**}**

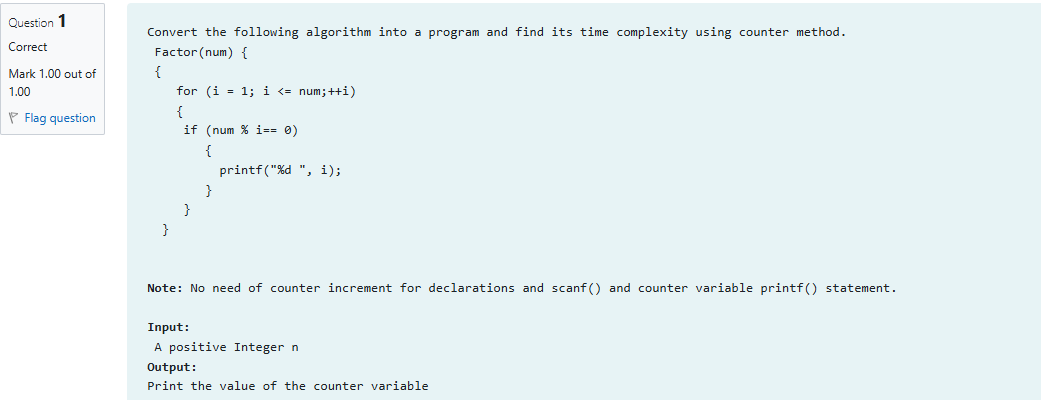
**a++;**

**}**

**printf("%d",a);**

**}**

****

****

**#include<stdio.h>**

**int main(){**

**int n,a=0;**

**scanf("%d",&n);**

**for(int i=1;i<=n;++i,a++){**

**a++;**

**if(n%i==0){**

**a++;**

**//printf("%d ",i);**

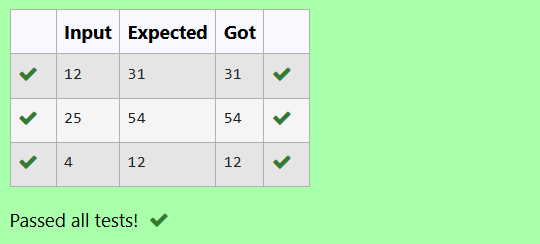
**}**

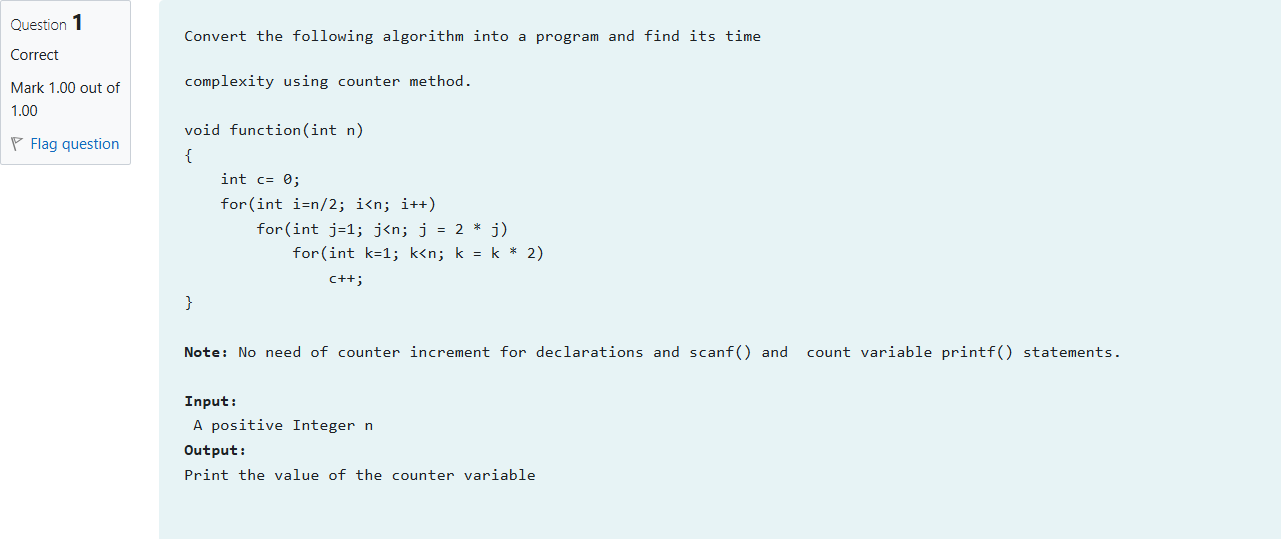
**}**

**a++;**

**printf("%d ",a);**

**}**

****

****

**#include<stdio.h>**

**int main(){**

**int n,a=0;**

**scanf("%d",&n);**

**int c=0;**

**a++;**

**for(int i=n/2;i<n;i++){**

**a++;**

**for(int j=1;j<n; j=2\*j){**

**a++;**

**for(int k=1;k<n; k=k\*2){**

**a++;**

**c++;**

**a++;**

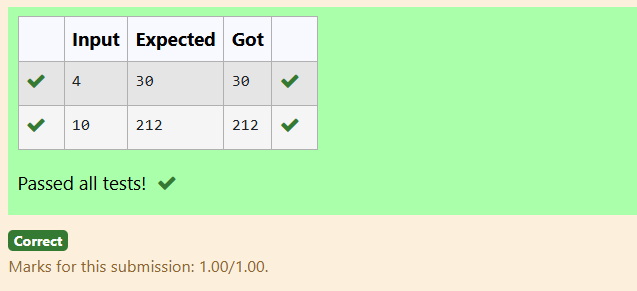
**}a++;**

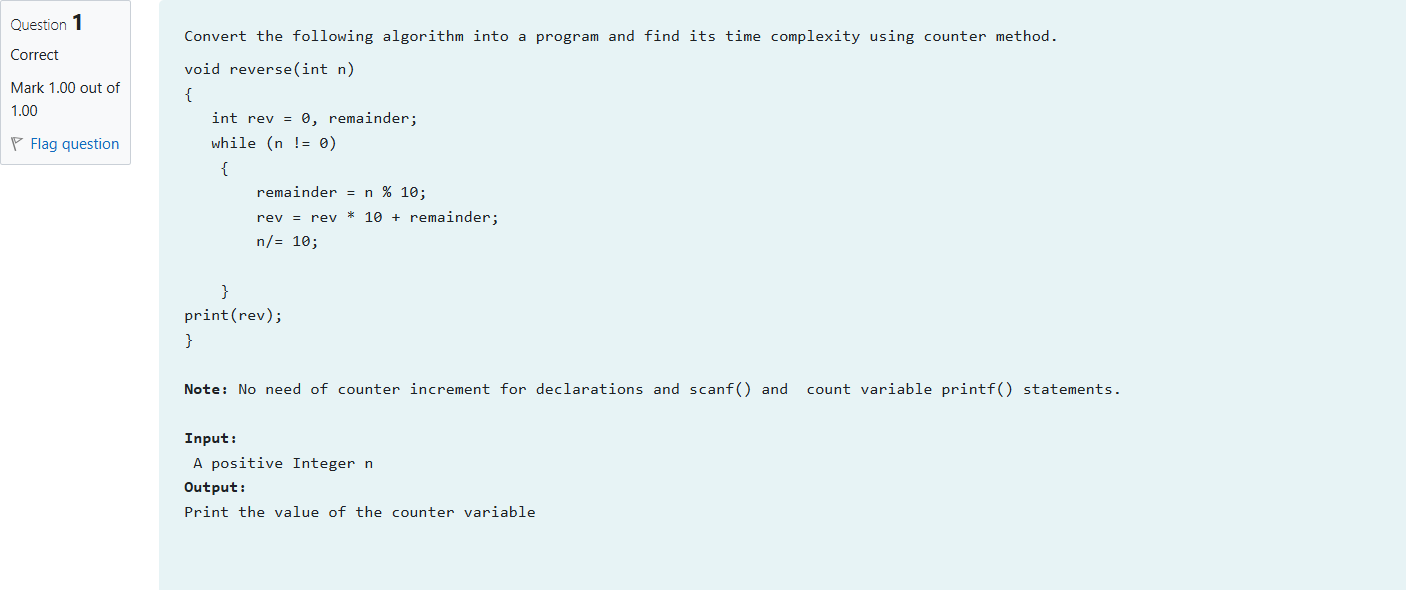
**}a++;**

**}a++;**

**printf("%d",a);**

**}**

****

** #include<stdio.h>**

**int main(){**

**int n,a=0;**

**scanf("%d",&n);**

**int rev =0,remainder;**

**a++;**

**while(n!=0){**

**a++;**

**remainder=n%10;**

**a++;**

**rev=rev\*10+remainder;**

**a++;**

**n/=10;**

**a++;**

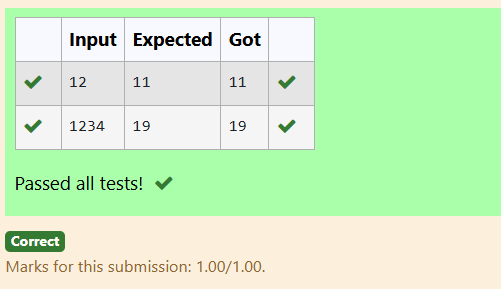
**}**

**a++;**

**a++;**

**printf("%d",a);**

**}**

****