

```
// print the factorial of the given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i,fact=1;
```

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

```
    for(i=1;i<=n;i++)
```

```
    {
```

```
        fact = fact*i;
```

```
    }
```

```
    printf("%d",fact);
```

```
}
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```
//print the factors of the given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i;
```

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

```
    for(i=1;i<=n;i++)
```

```
    {
```

```
        if(n%i==0)
```

```
        {
```

```
            printf("%d_",i);
```

```
        }
```

```
    }
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```
//print fibonacci series upto given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n1=0,n2=1,n3,n,i;
```

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

```
    printf("%d,%d,",n1,n2);
```

```
    for(i=2;i<n;++i)
```

```
    {
```

```
        n3=n1+n2;
```

```
        printf("%d,",n3);
```

```
        n1=n2;
```

```
        n2=n3;
```

```
    }
```

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}
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```
//find the gcd for the given two numbers
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a,b,lcm,gcd,max;
```

```
    scanf("%d%d",&a,&b);
```

```
    max = a>b?a:b;
```

```
    while(1)
```

```
    {
```

```
        if (max%a==0 && max%b==0)
```

```
        {
```

```
            lcm = max;
```

```
            break;
```

```
        }
```

```
        ++max;
```

```
    }
```

```
    gcd=(a*b)/lcm;
```

```
    printf("%d is GCD of %d and %d",max,a,b);
```

```
}
```

```
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```

```
//find the lcm of the given two numbers
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a,b,max;
```

```
    scanf("%d%d",&a,&b);
```

```
    max=a>b?a:b;
```

```
    while(1)
```

```
    {
```

```
        if(max%a==0 && max%b==0)
```

```
        {
```

```
            printf("LCM of %d and %d is %d",a,b,max);
```

```
            break;
```

```
        }
```

```
        ++max;
```

```
    }
```

```
}
```

```
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```
//print the multiplication table of the given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i;
```

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

```
    for(i=1;i<=10;i++)
```

```
    {
```

```
        printf("%dX%d=%d\n",n,i,i*n);
```

```
    }
```

```
}
```

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```
//count the no of digits in given number
#include<stdio.h>
int main()
{
    long long int n;
    int count=0;
    scanf("%lld",&n);
    while (n>0)
    {
        n = n/10;
        count = count+1;
    }
    printf("%d",count);
}
```

```
//find the given number is palindrome or not
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int trueno,rem,n,sum=0;
```

```
    scanf("%d",&trueno);
```

```
    n = trueno;
```

```
    while(n!=0)
```

```
    {
```

```
        rem = n%10;
```

```
        n = n/10;
```

```
        sum =(sum*10)+rem;
```

```
    }
```

```
    if (sum==trueno)
```

```
    {
```

```
        printf("%d is a palindrome",trueno);
```

```
    }else
```

```
    {
```

```
        printf("%d is not a palindrome",trueno);
```

```
    }
```

```
}
```

```
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```
//check the given number is perfect or not
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i,sum=0;
```

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

```
    for(i=1;i<=n;i++)
```

```
    {
```

```
        if(n%i==0)
```

```
        {
```

```
            sum=sum+i;
```

```
        }
```

```
    }
```

```
    if (sum==n)
```

```
    {
```

```
        printf("Given number is a perfect number");
```

```
    }else{
```

```
        printf("Given number is not a perfect number");
```

```
    }
```

```
}
```

```
//print the reverse of the given integer
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,rem;
```

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

```
    while (n>0)
```

```
    {
```

```
        rem = n%10;
```

```
        n= n/10;
```

```
        printf("%d",rem);
```

```
    }
```

```
}
```

```
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```

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```

```
//check that given no is prime or not
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i,fact=0;
```

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

```
    if(n==1||n==0)
```

```
    {
```

```
        fact = 1;
```

```
    }
```

```
    for(i=2;i<=n/2;i++)
```

```
    {
```

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

```
            fact=1;
```

```
        }
```

```
    }
```

```
    if (fact==0)
```

```
    {
```

```
        printf("Prime number");
```

```
    }else
```

```
        printf("Not a Prime number");
```

```
}
```

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```
//print the prime numbers between 1 and n
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int n,i,pin,j;
```

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

```
    for (i=2;i<=n;i++)
```

```
    { pin=0;
```

```
        for(j=2;j<=n;j++)
```

```
        {
```

```
            if(j%i==0){
```

```
                pin=1;
```

```
                break;
```

```
            }
```

```
        }
```

```
    if(pin==0)
```

```
    {
```

```
        printf("%d",j);
```

```
    }
```

```
    }
```

```
}
```

```
//find the sum of digits in the given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i;
```

```
    for(i=65;i<=90;i++)
```

```
    {
```

```
        printf(" %c",i);
```

```
    } printf("\n");
```

```
        for (i=97;i<=122;i++)
```

```
        {
```

```
            printf("%c",i);
```

```
        }
```

```
    }
```

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```
//find the given number is armstrong number or not
```

```
#include<stdio.h>
```

```
int main()
```

```
    int tn,n,rem,sum=0;
```

```
    scanf("%d",&tn);
```

```
    n=tn;
```

```
    while(n!=0)
```

```
    {
```

```
        rem=n%10;
```

```
        sum=sum+(rem*rem*rem);
```

```
        n=n/10;
```

```
    }
```

```
    if (sum==tn)
```

```
    {
```

```
        printf("Given number is a armstrong number");
```

```
    }else
```

```
    {
```

```
        printf("Given number is not a armstrong number");
```

```
    }
```

```
//find the sum of digits in the given number
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int d,n,sum=0;
```

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

```
    while(n!=0)
```

```
    {
```

```
        d=n%10;
```

```
        sum = sum+d;
```

```
        n=n/10;
```

```
    }
```

```
    printf("%d",sum);
```

```
}
```

```
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```

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