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1.To find GCD of two numbers

```
#include <stdio.h>
int main(int argc,char *argv[]) {

int a,b,small,i; a=atoi(argv[1]); b=atoi(argv[2]); if(a>b) small=b;

else
small=a; for(i=small;i>=1;i--) {

if((a%i)==0&&(b%i)==0) {

printf("%d",i);

break; }

} return 0;

}
```

2. To find the lcm of two numbers

```
#include <stdio.h>
int main(int argc,char *argv[]) {

int a,b,large; a=atoi(argv[1]); b=atoi(argv[2]); if(a>b)

large=a; else large=b;

while(1) {

if((large%a)==0&&(large%b)==0) {

printf("%d",large);

break; }

large++; }

return 0; }
```

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3. To find the Factorial of a non negative number

```
#include <stdio.h>
int main(int argc, char *argv[])

{
int n, fact=1, i; n=atoi(argv[1]); for(i=1; i<=n; i++) {

fact=fact*i; }

printf("%d", fact); return 0;

}
```

4. To find the area of a circle ($\text{area} = 3.14 * r * r$), when diameter is given.

```
#include <stdio.h>
#define PI 3.14
int main(int argc, char *argv[]) {

float dia, radius, area=0; dia=atoi(argv[1]); radius=0.5*dia; area=PI*radius*radius;
printf("%.2f", area);

return 0; }
```

5. To check whether the given year is Leap year or not.

```
#include <stdio.h>

int main(int argc, char *argv[]) {

int year; year=atoi(argv[1]); if(year%100==0)
{

if(year%400==0) printf("Leap year"); else
printf("not leap year");

} else
```

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```
if(year%4==0) printf("leap year"); else  
printf("not leap year");
```

```
return 0; }
```

6.To find the area of triangle when base and height is given.

```
#include <stdio.h>  
int main(int argc,char *argv[]) {  
  
float height,base,area; height=atoi(argv[1]); base=atoi(argv[2]); area=0.5*base*height;  
printf("%.2f",area); return 0;  
  
}
```

7. To print the Fibonacci series.

Input=6 Output=1 1 2 3 5 8

```
#include <stdio.h>  
int main(int argc,char *argv[]) {  
  
int n,first=1,sec=1,next,i;  
  
n=atoi(argv[1]); for (i=0;i<n;i++)  
  
{  
if (i<=1)  
  
next=1; else  
  
{  
next=first+sec; first=sec; sec=next;  
  
}  
  
printf("%d ",next); }  
  
return 0; }
```

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8.To check whether the given number is prime or not.

```
#include <stdio.h>
int main(int argc,char *argv[]) {

int n,i,count=0; n=atoi(argv[1]); for(i=1;i<=n;i++) {

if(n%i==0) {

count++; }

}
if(count==2)
printf("prime number");
else
printf("not prime number "); return 0;

}
```

9.To check whether given number is strong number or not.

```
#include<stdio.h>
int fact(int);
int main(int argc, char *argv[]) {

int num,d,n,res=0,i,count=0,x; n=atoi(argv[1]);
num=n;
x=num;

while(n!=0) {

n=n/10;

count++; }

for(i=0;i<count;i++){ if(x>0)
{

d=x%10; res=res+fact(d); x=x/10;
```

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```
}  
} if(res==num)  
  
{  
printf("strong number");  
  
}  
else printf("not strong number");  
  
return 0; }  
  
int fact(int x) {  
  
if(x==0) return 1;  
  
else  
return x*fact(x-1);  
  
}
```

10. To check whether number is palindrome or not.

```
#include <stdio.h>  
int main(int argc,char *argv[]) {  
  
int num,rev=0,digit,orig; num=atoi(argv[1]); orig=num;  
  
while(num>0){ digit=num%10; rev=rev*10+digit; num=num/10;  
  
}  
  
if(orig==rev) {  
  
printf("palindrome"); }  
  
else  
printf("not palindrome"); return 0;  
  
}
```

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