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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;

}
```

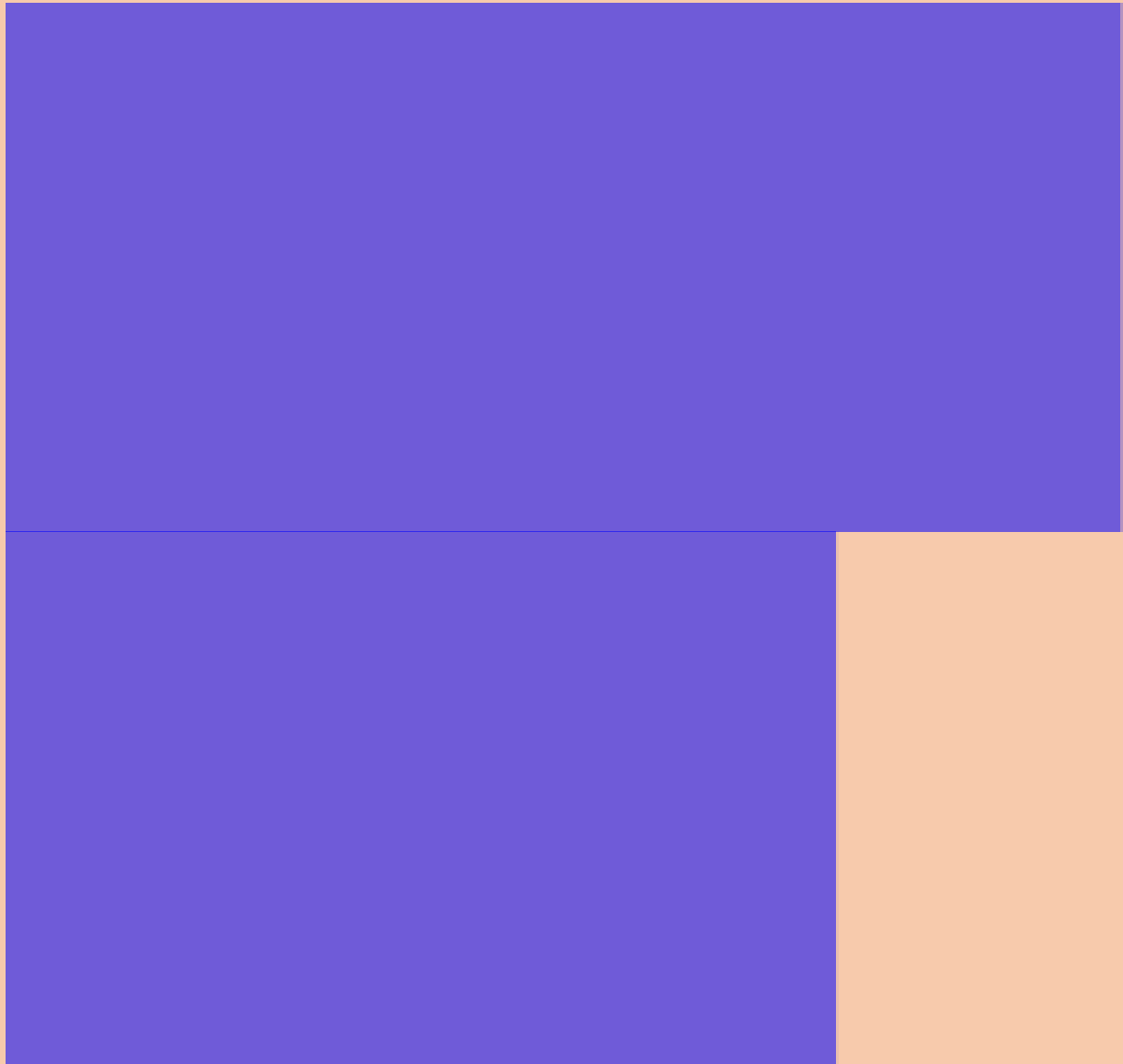
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## 2. To find the lcm of two numbers

```
#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; }
```

## 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++) {
```

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```
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

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**

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**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; }
```

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

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

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```
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;  
  
}  
} if(res==num)  
  
{  
printf("strong number");  

```

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```
}  
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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