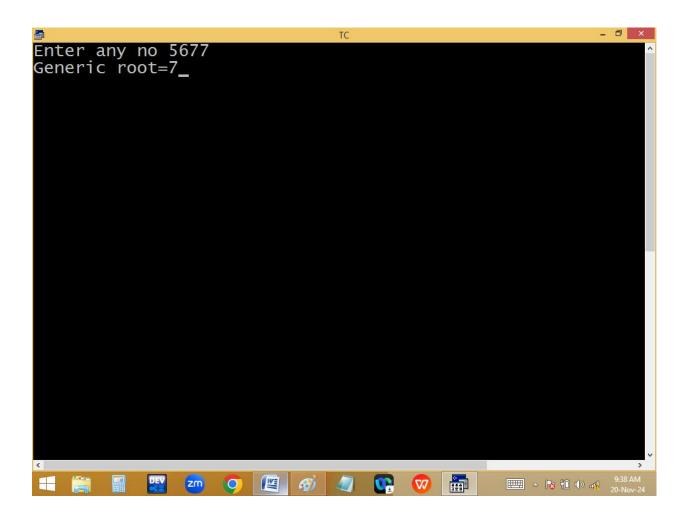
Tables side by side:

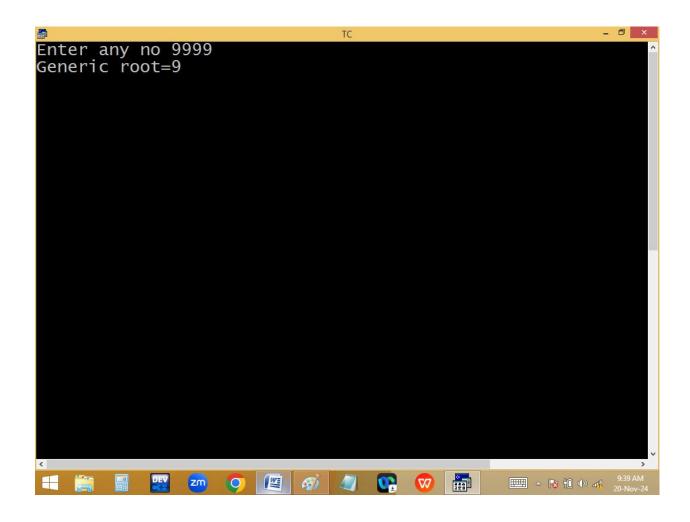
```
File Edit Run Compile
                                Project Options
                                                     Debug
      Line 15
                 Col 14 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
int n, i, t;
clrscr();
printf("Enter no of tables "); scanf("%d",&n);
for(i=1;i<=10;i++)
for(t=1;t<=n;t++)
printf("%d*%d=%d\t",t,i,t*i);
printf("\n");
getch();
                                 9:25 AM
zm
```

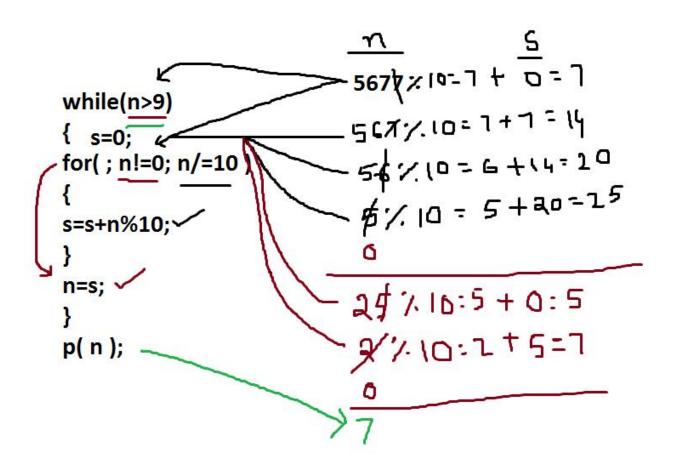
```
_ 0 ×
Enter no of tables 3
1*1=1
        2*1=2
                 3*1=3
1*2=2
        2*2=4
                3*2=6
        2*3=6
                 3*3=9
1*3=3
1*4=4
        2*4=8
                3*4=12
1*5=5
        2*5=10
                 3*5=15
1*6=6
        2*6=12
                3*6=18
1*7=7
        2*7=14
                3*7=21
1*8=8
        2*8=16
                 3*8=24
1*9=9
        2*9=18
                3*9=27
1*10=10 2*10=20 3*10=30
                                  9:25 AM
               zm
                       for( i=1; i<=10; i++ )
                       1234XI
for( t=1; t<=3; t++ )
                      1 234 * 2
                             XЗ
p(t*i\t");
                                                            QO
}
p("\n");
                                           2*1=2 3*1=3 10*1=10
                               10
                                    1*1=1
}
```

Finding generic root of given no.

```
_ 🗇 🗶
  File Edit Run Compile Project Options
                                                      Debug
      Line 16
                 Col 29 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
long n, s=0;
clrscr();
printf("Enter any no "); scanf("%ld",&n);
while(n>9)
for(s=0;n!=0;n=n/10)
s=s+n%10;
n=s:
printf("Generic root=%d",s);_
getch();
                                         zm
                      V7
                                               9:38 A
```







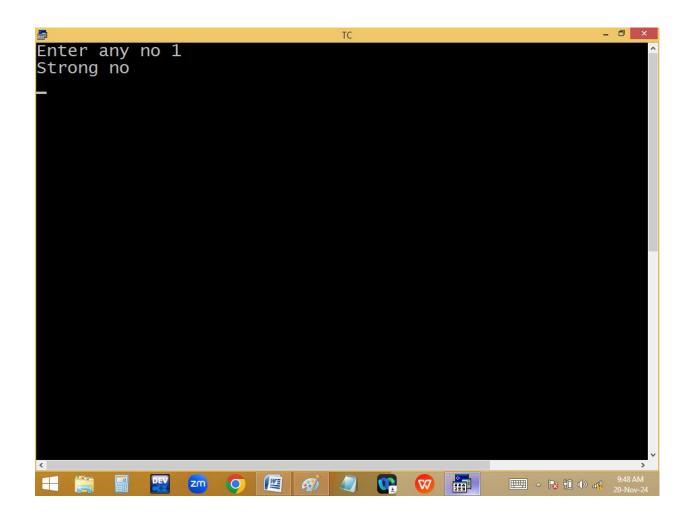
Finding strong no or not?

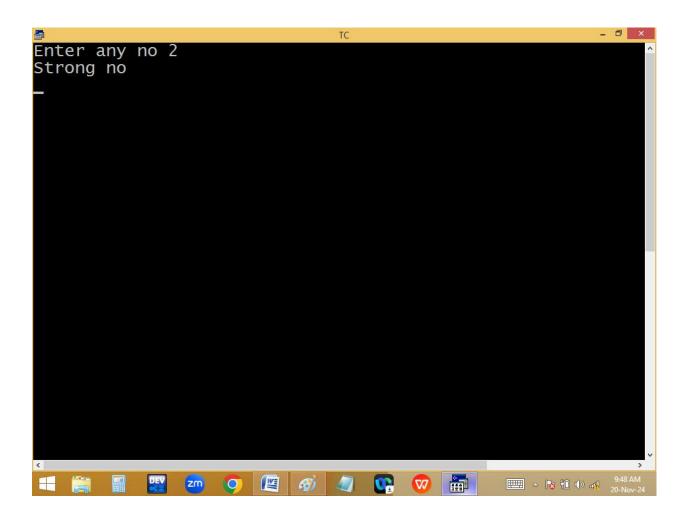
1 factorial is 1

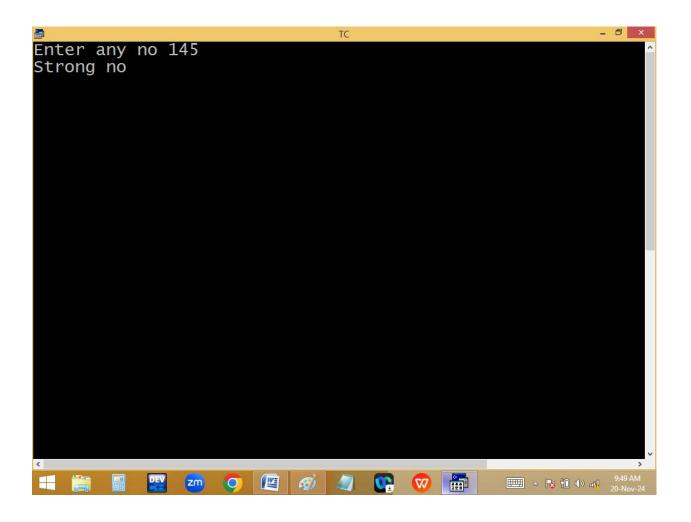
2 factorial is 2

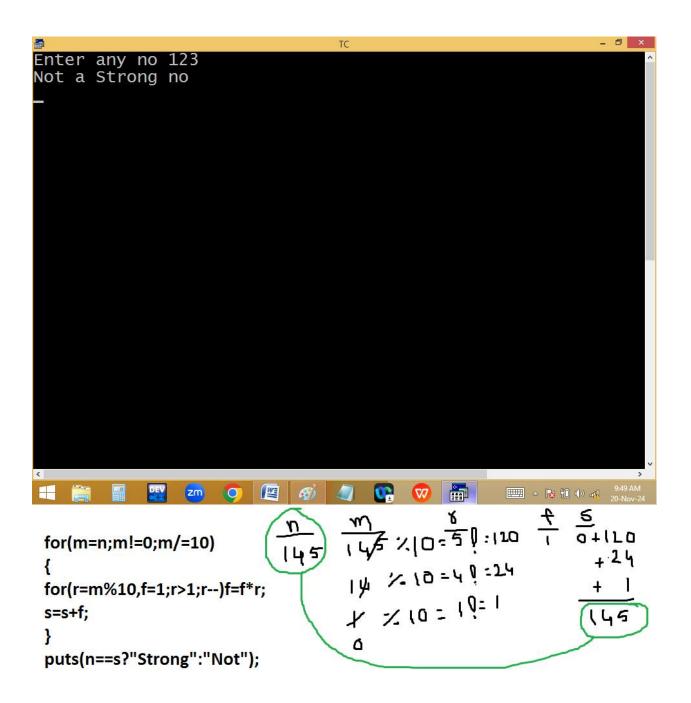
123
$$\rightarrow$$
 1! + 2! + 3! = 1 + 2 + 6 = 9 \leftarrow not a strong no

```
_ 0 ×
  File Edit Run Compile Project Options
                                                     Debug
      Line 16
                 Col 42 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int n,m,r,f,s=0;
clrscr();
printf("Enter any no "); scanf("%d",&n);
for(m=n;m!=0;m=m/10)
for(r=m%10,f=1;r>1;r--)
f=f*r:
s+=f:
puts(n==s?"Strong no":"Not a Strong no");
getch();
                                        zm
                      9.48 A
```



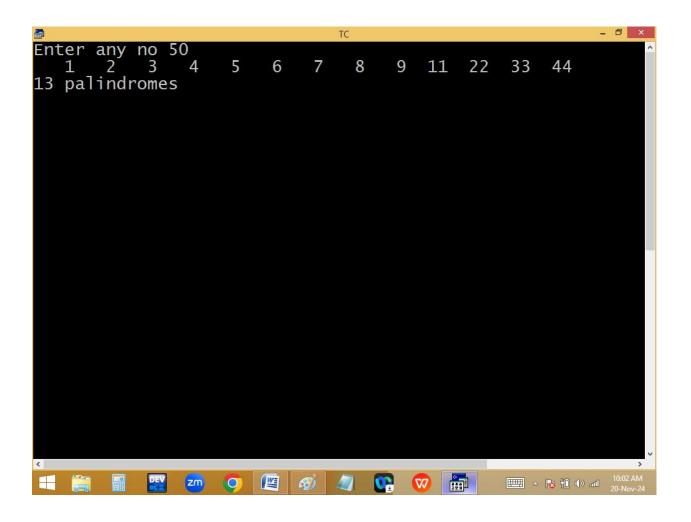






Printing 1...n palindrome no's and count:

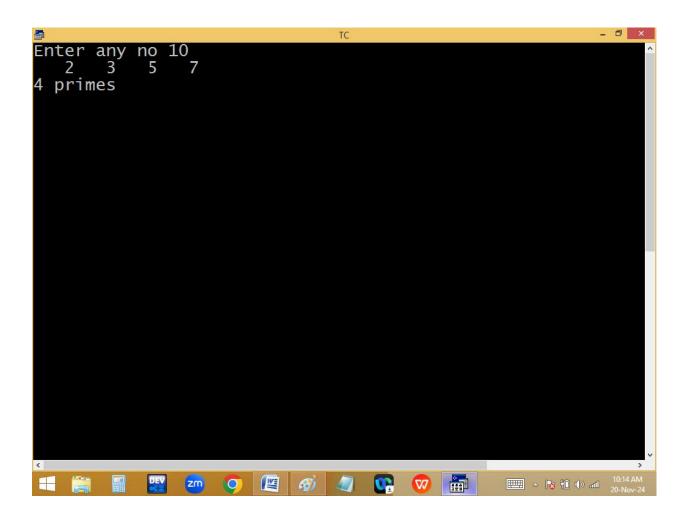
```
_ 0 ×
   File Edit Run Compile
                                                           Debug
                                    Project Options
       Line 17
                   Col 30 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int n,a,b,r,rev,c=0;
clrscr();
printf("Enter any no "); scanf("%d",&n);
for(a=1;a<=n;a++)
for(b=a,rev=0;b!=0;b/=10)
r = b\%10:
rev=rev*10+r;
if(a==rev)printf("%4d",a,c++);
printf("\n%d palindromes",c);_
getch();
                                             _____ △ 😼 📆 🕩 and 10:02 AN
                zm
                        W
```

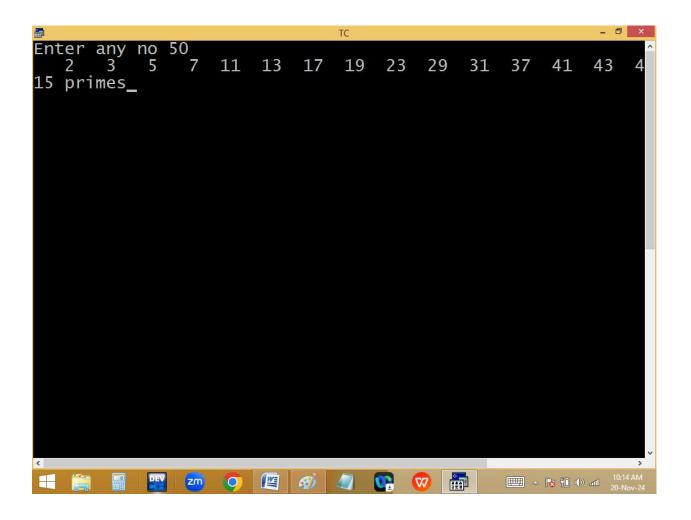


```
_ 🗇 ×
Enter any no 200
 1 2 3 4 5 6 7 8
121 131 141 151 161 171 181 191
                                             11
                                                  22
                                                       33
                                                            44
                                                                 55
                                     8
28 palindromes_
                                                      <u>n</u>
50
 for( a=1; a<=n; a++)
                                           17.10=
                                                        0x10+1=1
 for(b=a, rev=0;b!=0;b/=10)
                                           2/10= a
                                                        DX10+2:2
                                  V 2
                                                                   9
 r=b%10;
                                          107.10=0
                                                        0710+0=0
                                                                   0
                                 D X
 rev=rev*10+r;
                                          1210=1
                                                        17/10+1E1
 }
 puts(a==rev)p(a,c++);
                                                        1-1-0120
                                VII.
                                          147.10-1
                                                        1x10+1=1
 p(c no of palindromes");
                                          1/210=1
                                  50
```

Print 1..n primes and count:

```
_ 0 ×
                                                          Debug
  File Edit Run Compile Project Options
       Line 16
                  Col 17 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int n,a,b,f,c=0;
clrscr();
printf("Enter any no "); scanf("%d",&n);
for(a=2;a<=n;a++)
for(b=1,f=0;b<=a;b++)
if(a\%b==0)f++;
if(f==2)printf("%4d",a,c++);
printf("\n%d primes",c);
getch();
                                                  □□□ △ 😼 📆 (I) and 10:14 AM
                                       W
                zm
```





for (a=2; a<=n; a++)
$$\sqrt{\frac{n}{10}} \frac{a}{a} \frac{7}{7} = 0$$

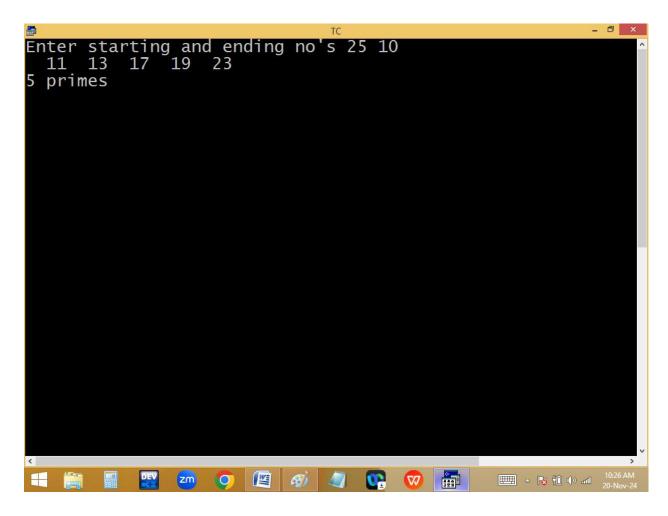
{
for (b=1; b<=a; b++)
{

if (a*b==0)f++;
}
if (f==2)p(a,c++);
}
p(c no of primes);

 $\frac{n}{10} \sqrt{\frac{a}{2}} \frac{b}{1} = 0$
 $\frac{1}{2} \sqrt{\frac{c}{3}} = 0$
 $\frac{1}{2} \sqrt{\frac{c}{3}}$

Print n to n primes and count:

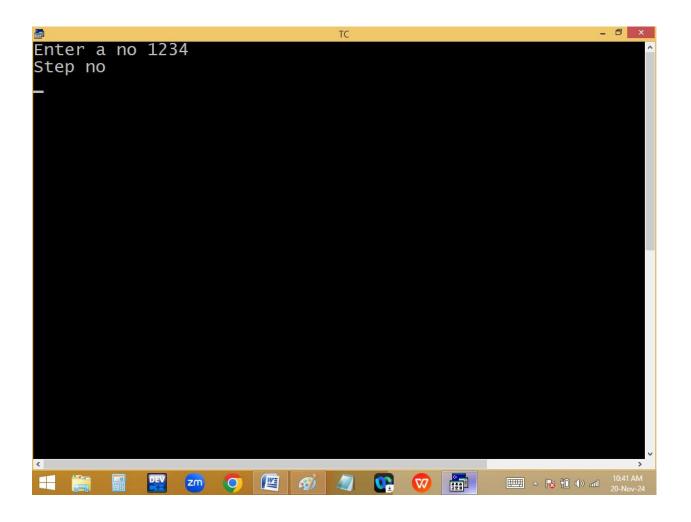
```
_ 0 ×
  File Edit Run Compile Project Options
                                                     Debug
      Line 9
                 Col 28 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
int n,a,b,f,c=0;
clrscr();
printf("Enter starting and ending no's ");
scanf("%d%d",&a,&n);
if(a>n){int t=a; a=n;n=t; }_
for(;a<=n;a++)
for(b=1,f=0;b<=a;b++)
if(a\%b==0)f++;
if(f==2)printf("%4d",a,c++);
printf("\n%d primes",c);
getch();
                                              zm
                      W
```

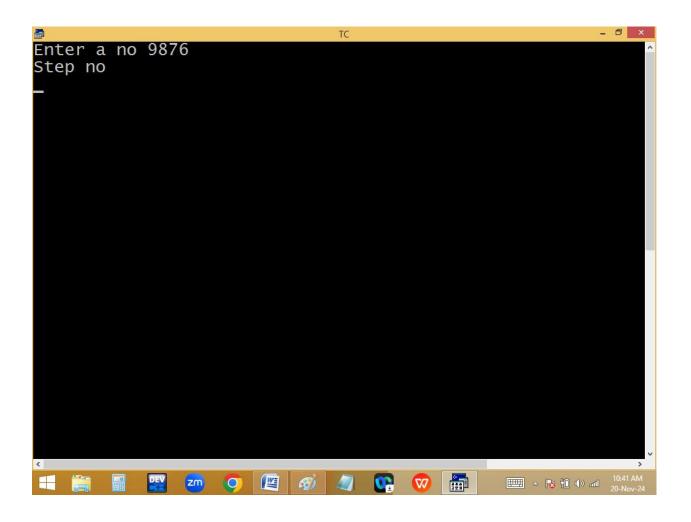


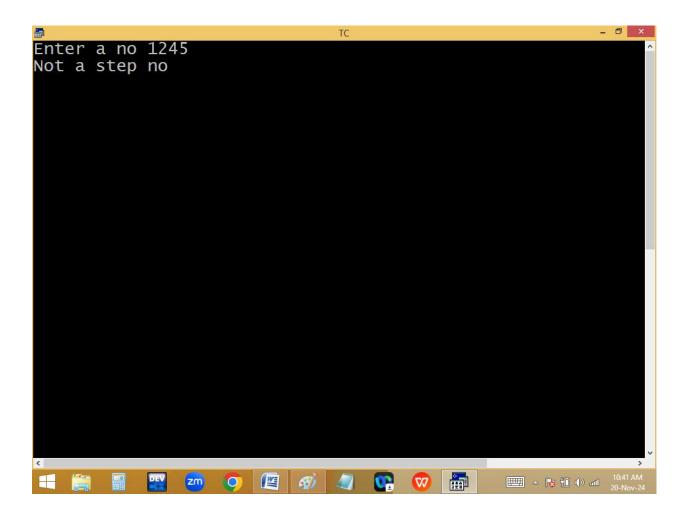
Finding step no:

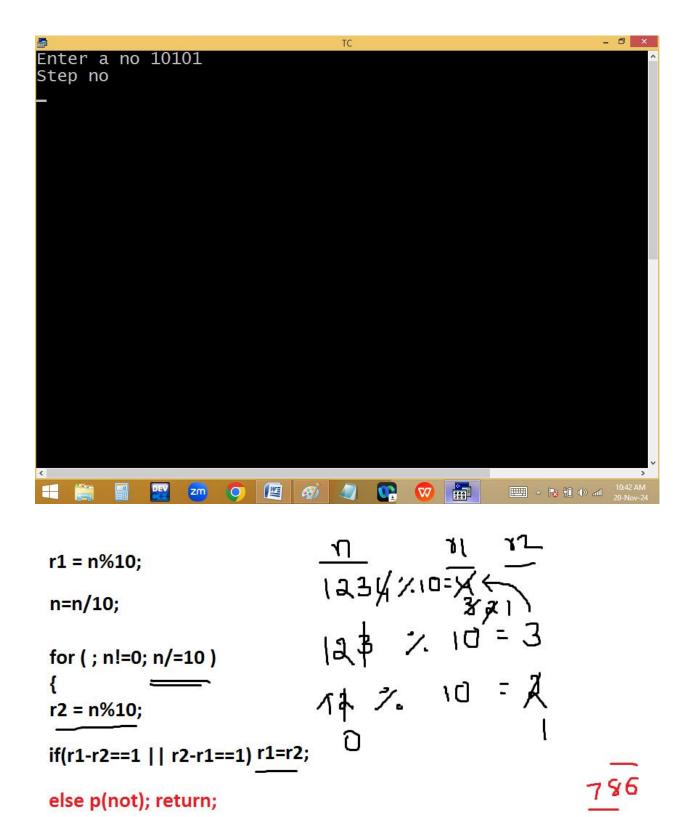
1234 → all the digits difference is 1

```
_ 0 ×
  File Edit Run Compile Project Options
                                                                   Debug
        Line 13
                     Col 37 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
void main()
long n,r1,r2;
clrscr();
printf("Enter a no ");
scanf("%ld",&n);
for( r1=n%10, n=n/10; n!=0; n/=10)
r^2 = n\%10:
if(r1-r2==1||r2-r1==1)r1=r2;
else {puts("Not a step no");getch();_return; }
puts("Step no");
getch();
                                                         △ 😿 📆 (1) and 10:41 AM
                                                  zm
                            W
```









p(step no);

Automorphic no:

$$n=5 \rightarrow 5 * 5 = 25$$