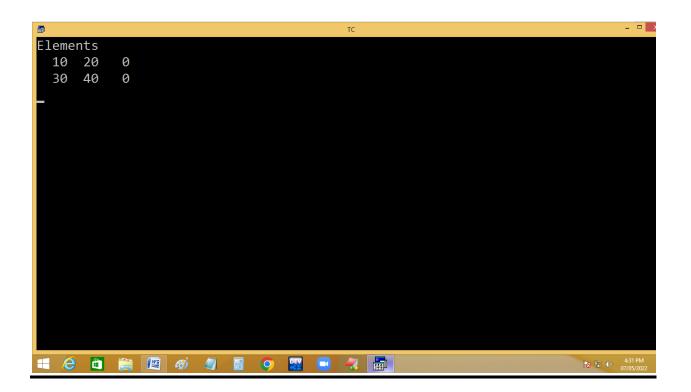
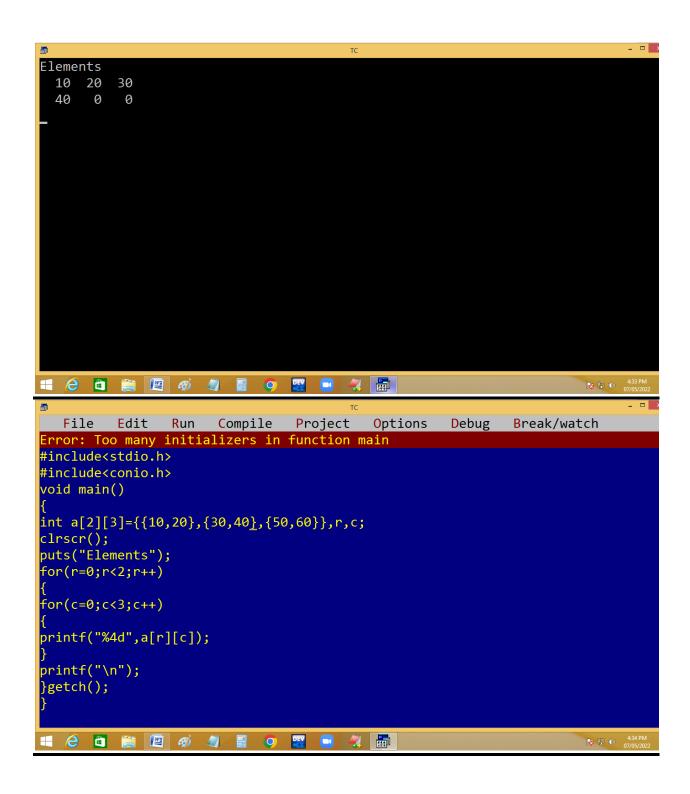


```
File Edit Run Compile
                           Project
                                   Options Debug
                                                   Break/watch
Error: Initializer syntax error in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={{10},{ }},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
/* Error */
                           DEV
File Edit Run Compile Project Options Debug Break/watch
              Col 1
                    Insert Indent Tab Fill Unindent * C:NONAME.C
     Line 17
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={{10,20},{30,40}},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
```

```
_ 🗆 🗅
Elements
  10
    20
         0
  30
    40
         0
P₃ P ♠ 4:31 PM
File Edit Run Compile Project Options Debug Break/watch
     Line 5
              Col 27 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={{10,20},30,40},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
№ 19 (1) 4:32 PM 07/05/2022
```



```
File Edit Run
                    Compile
                             Project
                                      Options Debug
                                                     Break/watch
Error: Too many initializers in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={{10,20,30,40}},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
                            DEV
P □ ◆ 4:32 P
File Edit Run Compile Project Options Debug Break/watch
               Col 25 Insert Indent Tab Fill Unindent * C:NONAME.C
     Line 5
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={10,20,30,40},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
                            Px ₩ ♦ 4:33 PM
```



```
File Edit Run Compile
                             Project
                                      Options
                                               Debug
                                                      Break/watch
Error: Size of structure or array not known in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[][]={10,20,30,40,50,60},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
                             DEV
                                   P □ ◆ 4:34 P
  File Edit Run Compile Project Options Debug Break/watch
   or: Size of structure or array not known in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[2][]={10,20,30,40,50,60},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
                                  Px ₽ ♦ 4:35 PM
                         0
```

```
_ 🗆 🗅
   File Edit Run Compile Project Options Debug Break/watch
                                  Line 5
                                                                                         Col 10 Insert Indent Tab Fill Unindent * C:NONAME.C
   #include<stdio.h>
   #include<conio.h>
   void main()
   int a[][3]={10,20,30,40,50,60},r,c;
   clrscr();
   puts("Elements");
   for(r=0;r<2;r++)
   for(c=0;c<3;c++)
   printf("%4d",a[r][c]);
   printf("\n");
   }getch();
   of the second se
                                                                                                                                                                                                                                                                                                                                                                           4:35 PM
07/05/2022
  Elements
            10 20
                                                      30
            40 50 60
4:36 PM
07/05/2022
```

```
_ 🗆 🗅
File Edit Run Compile Project Options Debug Break/watch
     Line 5
             Col 21 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[][3]={10,20,30<u>}</u>,r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
4:37 PM
07/05/2022
Elements
 10 20
        30
 -24 285
        1
№ № (4:37 PM
```

```
File Edit Run Compile Project Options Debug Break/watch
     Line 5
              Col 15 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[][3]={10<u>}</u>,r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
4:38 PM
07/05/2022
```

### **Output:**

10 0 0

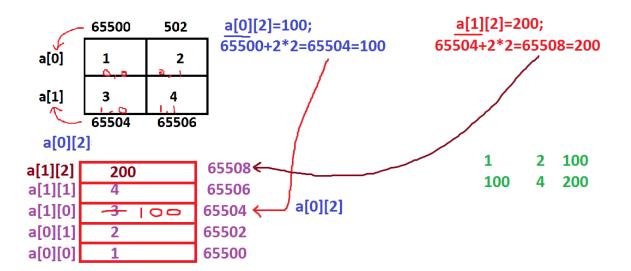
### Gr gr gr

```
File Edit Run Compile Project Options Debug Break/watch
Line 7 Col 22 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={10},r,c;
clrscr();
a[0][0]=1; a[1][2]=6;
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%4d",a[r][c]);
printf("\n");
}getch();
Elements
   1
      0
         0
   0
      0
         6
```

```
File Edit Run Compile Project Options Debug Break/watch
     Line 13
             Col 11 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3],r,c;
clrscr();
a[0][0]=1; a[1][2]=6;
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%6<u>d</u>",a[r][c]);
printf("\n");
}getch();
4:42 PM
07/05/2022
Elements
    1 7083 1824
  -24 5201
```

```
File Edit Run Compile
                              Project
                                       Options Debug
                                                        Break/watch
Error: Incompatible type conversion in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]=1,r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%6d",a[r][c]);
printf("\n");
}getch();
File Edit Run Compile Project Options Debug Break/watch
Error: Too many initializers in function main
#include<stdio.h>
#include<conio.h>
void main()
int a[2][2]={1,2,3,4,5,6},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%6d",a[r][c]);
printf("\n");
}getch();
(4:45 PM
07/05/2022
```

```
_ 🗆 🗅
File Edit Run Compile Project Options Debug Break/watch
     Line 7
              Col 2
                     Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[2][2]={1,2,3,4},r,c;
clrscr();
a[0][2]=100; a[1][2]=200;
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%6d",a[r][c]);
printf("\n");
}getch();
4:57 PM
07/05/2022
Elements
    1
         2
            100
  100
         4
            200
Ps □ ♠ 4:57 PM 07/05/2022
```



```
File Edit Run Compile Project Options Debug Break/watch
     Line 7
              Col 1
                     Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[2][3]={-5,'a','1',4.55,'a'+'b','X'-'d'},r,c;
clrscr();
puts("Elements");
for(r=0;r<2;r++)
for(c=0;c<3;c++)
printf("%6d",a[r][c]);
printf("\n");
}getch();
                                                          5:02 PIM
07/05/2022
— □
Elements
   -5
        97
             49
       195
            -12
5:02 PM
07/05/2022
```

Reading and printing elements of n\*n matrix.

```
_ 0
#include<stdio.h>
#include<conio.h>
void main()
int a[10][10],nr,nc,r,c;
clrscr();
printf("Enter no of rows and columns ");
scanf("%d %d",&nr,&nc);
printf("Enter %d integers", nr * nc);
for(r=0;r<nr;r++)for(c=0;c<nc;c++)scanf("%d",&a[r][c]);
puts("Elements");
for(r=0;r<nr;r++)
for(c=0;c<nc;c++)</pre>
printf("%6d",a[r][c]);
printf("\n");
}getch();
5:08 PM
07/05/2022
— 🗇 ×
Enter no of rows and columns 2 4
Enter 8 integers1 2 3 4 5 6 7 8
Elements
         2
                    4
    1
              3
    5
         6
                    8
120%
                                                             5:08 PN
```

```
Enter no of rows and columns 5 2
Enter 10 integers
2 0 -4 8 -9 1 4 2 9 4
Elements
2 0 0 -4 8 -9 1 4 2 9 4

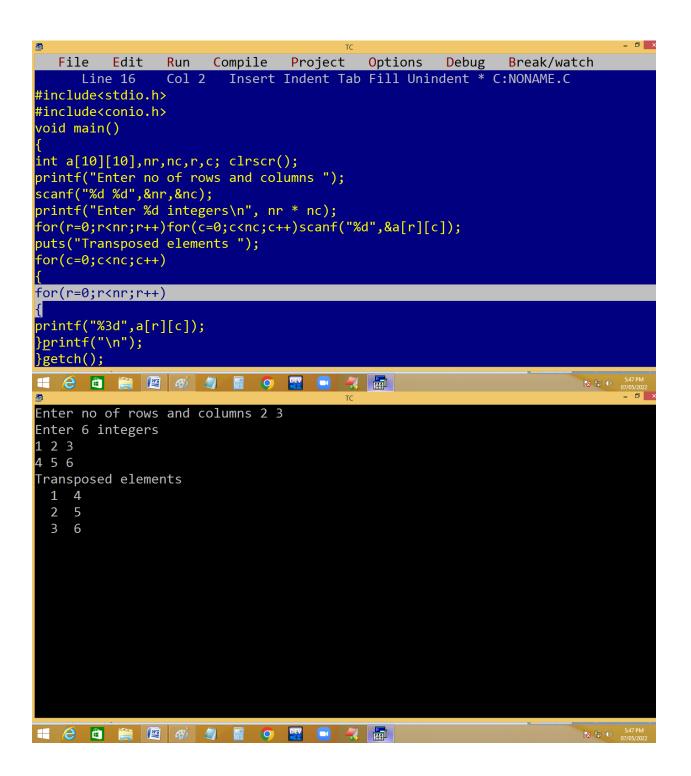
1 4 2 9 1 4 2 9 4
```

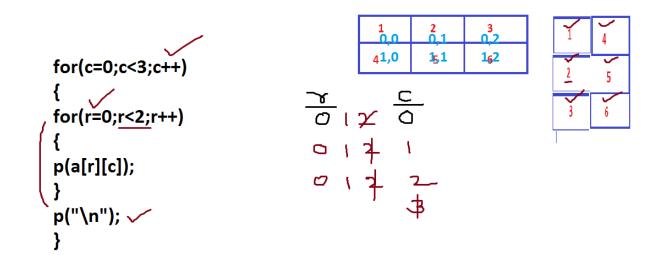
# Eg.

Read elements of n\*n matrix and print row sum as follows.

```
_ 🗇 ×
 File Edit
               Run
                    Compile Project
                                     Options Debug Break/watch
               Col 28 Insert Indent Tab Fill Unindent * C:NONAME.C
     Line 9
#include<stdio.h>
#include<conio.h>
void main()
int a[10][10],nr,nc,r,c,s=0;
clrscr();
printf("Enter no of rows and columns ");
scanf("%d %d",&nr,&nc);
printf("Enter %d integers\n", nr * nc);
for(r=0;r<nr;r++)for(c=0;c<nc;c++)scanf("%d",&a[r][c]);
puts("rows sum ");
for(r=0;r<nr;r++)
for(s=0,c=0;c<nc;c++)
printf("%d+",a[r][c],s=s+a[r][c]);
                                                              5:301-
07/05/2022
— 🗇
3 0 9 5 8
1 9 -3 7 6
rows sum
3+0+9+5+8=25
1+9+-3+7+6=20
5:38 PM
07/05/2022
```

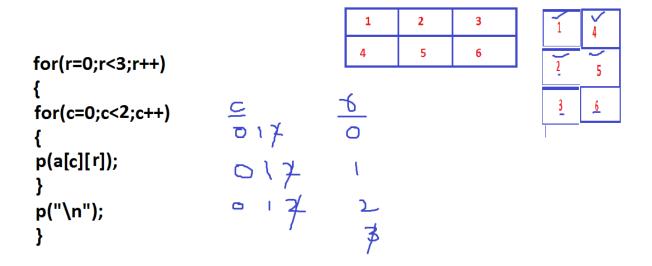
Transpose of n\*n matrix.





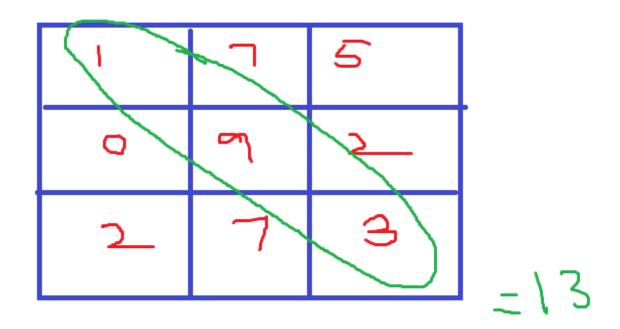
## Method 2:

```
- □ ×
#include<stdio.h>
#include<conio.h>
void main()
int a[10][10],nr,nc,r,c; clrscr();
printf("Enter no of rows and columns ");
scanf("%d %d",&nr,&nc);
printf("Enter %d integers\n", nr * nc);
for(r=0;r<nr;r++)for(c=0;c<nc;c++)scanf("%d",&a[r][c]);
puts("Transposed elements ");
for(r=0;r<nc;r++)
for(c=0;c<nr;c++)
printf("%3d",a[c][r]);
}printf("\n");
}getch();
                                                               © (1) 07/05/2022
- □ ×
Enter no of rows and columns 2 3
Enter 6 integers
1 2 3
4 5 6
Transposed elements
  1 4
  2 5
  3 6
Page: 24 of 25 | Words: 32 | 🕉 |
                                                          120%
```



#### Home work:

Eg 1.Trace of n\*n matrix.



Eg 2: Finding no of even, odd, zeros in each row as follow.

1	0	<b>GE</b>
4	5	6

even	odd	zero
1-row 1	1	1
2-row 2	1	0